

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070820\
 Data File : VL035171.D
 Acq On : 8 Jul 2020 4:33
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Quant Time: Jul 08 06:21:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 08 06:17:02 2020
 QLast Update : Wed Jul 08 06:17:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1237043	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3029341	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2715220	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2270637	10.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.14	85	114725	0.685	ppbv	90
3) Chlorodifluoromethane	2.94	51	76121	0.562	ppbv	100
4) Chloromethane	3.09	50	42942	0.567	ppbv	95
5) Vinyl Chloride	3.21	62	41818	0.576	ppbv #	88
6) Bromomethane	3.43	94	25067	0.552	ppbv	94
7) Chloroethane	3.51	64	9100	0.330	ppbv #	88
8) Dichlorotetrafluoroethane	3.14	85	114725	0.640	ppbv	97
9) Propene	2.96	41	25060	0.470	ppbv	87
10) Heptane	8.13	43	60550	0.436	ppbv	99
11) Trichlorofluoromethane	3.92	101	113335	0.628	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.46	101	80250	0.642	ppbv	95
13) Ethanol	3.57	45	10428	0.528	ppbv	83
14) Bromoethene	3.70	108	29650	0.554	ppbv	92
15) Acetone	3.83	43	106163	0.706	ppbv	99
16) 1,3-Butadiene	3.29	39	33271	0.510	ppbv	94
17) tert-Butyl alcohol	4.27	59	79522	0.594	ppbv	95
18) 1,1-Dichloroethene	4.26	96	33375	0.593	ppbv	94
19) Isopropyl Alcohol	3.94	45	31014	0.321	ppbv #	85
20) Methylene Chloride	4.31	84	48593	0.794	ppbv	94
21) Allyl Chloride	4.38	41	53941	0.605	ppbv	98
22) trans-1,2-Dichloroethene	4.86	96	34455	0.649	ppbv #	73
23) Vinyl Acetate	5.05	43	80921	0.450	ppbv #	91
24) 1,1-Dichloroethane	4.99	63	85726	0.562	ppbv #	96
25) Ethyl Acetate	5.66	43	133350	0.497	ppbv	98
26) Hexane	5.66	57	34552	0.285	ppbv #	1
27) Carbon Disulfide	4.52	76	84275	0.651	ppbv #	91
28) Methyl tert-Butyl Ether	5.02	73	85550	0.501	ppbv	96
29) Chloroform	5.73	83	105625	0.556	ppbv	94
30) Cyclohexane	7.12	84	33855	0.390	ppbv	94
31) cis-1,2-Dichloroethene	5.53	61	51906	0.468	ppbv #	87
32) 1,1,1-Trichloroethane	6.50	97	93072	0.526	ppbv	97
34) 2-Butanone	5.23	43	76420	0.446	ppbv	100
35) Carbon Tetrachloride	7.01	117	100624	0.552	ppbv	97
36) Benzene	6.88	78	101537	0.438	ppbv	94
37) 1,2-Dichloroethane	6.29	62	78430	0.531	ppbv	97
38) Trichloroethene	7.84	130	19754	0.217	ppbv	91
39) 1,2-Dichloropropane	7.62	63	41795	0.462	ppbv #	86
40) 1,4-Dioxane	7.86	88	6033	0.165	ppbv #	1
41) Tetrahydrofuran	6.05	42	20419	0.234	ppbv #	53
42) Bromodichloromethane	7.79	83	64243	0.335	ppbv #	95
43) Methyl Methacrylate	8.02	69	35683	0.363	ppbv	95

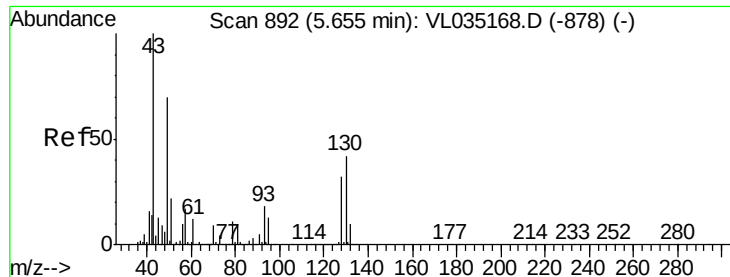
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070820\
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Quant Time: Jul 08 06:21:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 08 06:17:02 2020
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	169182	0.417	ppbv	94
45) t-1,3-Dichloropropene	9.29	75	25225	0.263	ppbv #	69
46) cis-1,3-Dichloropropene	8.71	75	22644	0.191	ppbv #	50
47) 1,1,2-Trichloroethane	9.48	97	28541	0.287	ppbv #	79
48) Dibromochloromethane	10.32	129	68324	0.457	ppbv	93
49) Bromoform	13.06	173	27306	0.214	ppbv #	26
50) 4-Methyl-2-Pentanone	8.76	43	94643	0.385	ppbv	100
51) 2-Hexanone	10.16	43	16577	0.087	ppbv #	1
52) Tetrachloroethene	11.24	164	8824	0.107	ppbv #	35
53) Toluene	9.82	91	52187	0.210	ppbv #	47
54) 1,2-Dibromoethane	10.62	107	20005	0.136	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.16	131	13460	0.120	ppbv #	11
57) Chlorobenzene	12.16	112	113125	0.564	ppbv #	87
58) Ethyl Benzene	12.74	91	65062	0.212	ppbv	91
59) m/p-Xylene	13.02	91	123438	0.454	ppbv #	35
60) o-Xylene	13.71	91	70485	0.260	ppbv #	32
61) Styrene	13.56	104	42861	0.251	ppbv #	69
62) Isopropylbenzene	14.70	105	130701	0.323	ppbv #	79
63) 1,1,2,2-Tetrachloroethane	13.70	83	82106	0.374	ppbv #	71
64) n-propylbenzene	15.59	120	44255	0.428	ppbv	67
65) tert-Butylbenzene	16.78	119	147371	0.422	ppbv	86
66) Benzyl Chloride	17.03	91	53780	0.488	ppbv #	86
67) sec-Butylbenzene	17.33	105	241129	0.481	ppbv	99
69) p-Isopropyltoluene	17.68	119	84100	0.210	ppbv #	46
70) n-Butylbenzene	18.59	91	185889	0.431	ppbv	98
71) 2-Chlorotoluene	15.48	91	134614	0.440	ppbv	96
72) 4-Ethyltoluene	15.87	105	88968	0.294	ppbv #	77
73) 1,3,5-Trimethylbenzene	16.02	105	74143	0.258	ppbv	95
74) 1,2,4-Trimethylbenzene	16.79	105	102816	0.320	ppbv #	90
75) 1,3-Dichlorobenzene	17.04	146	63966	0.334	ppbv #	30
76) 1,4-Dichlorobenzene	17.17	146	50555	0.275	ppbv #	30
77) 1,2-Dichlorobenzene	17.85	146	44660	0.253	ppbv #	20
78) Hexachloro-1,3-Butadiene	23.42	225	53193	0.343	ppbv #	38
79) Naphthalene	22.25	128	18459	0.067	ppbv #	68
80) Naphthalene, 2-methyl-	25.03	142	5722	0.057	ppbv #	77
81) 1,2,4-Trichlorobenzene	21.98	180	13343	0.084	ppbv #	12

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.01 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

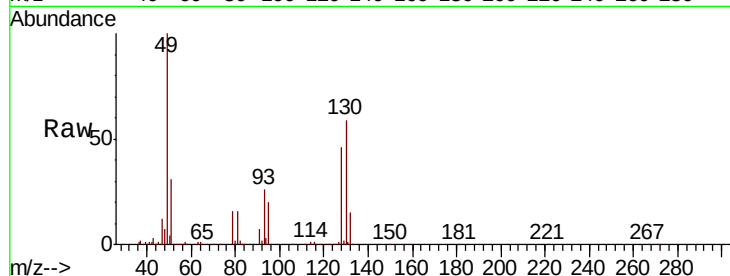
MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 1237043

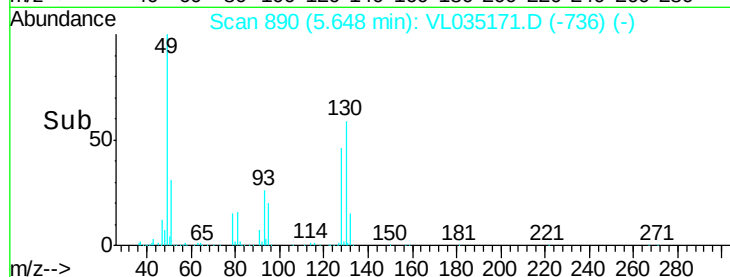
Ion	Ratio	Lower	Upper
49	100		
128	48.2	23.8	71.4
130	61.9	29.9	89.8



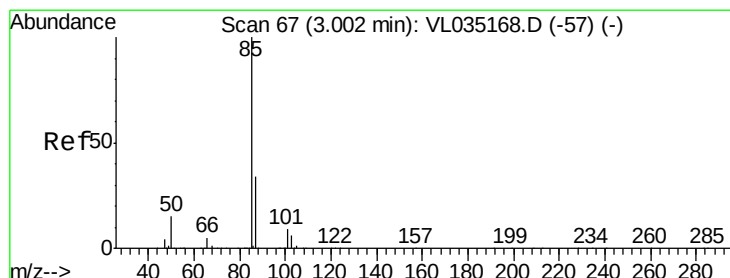
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 0.685 ppbv

RT: 3.14 min Scan# 110

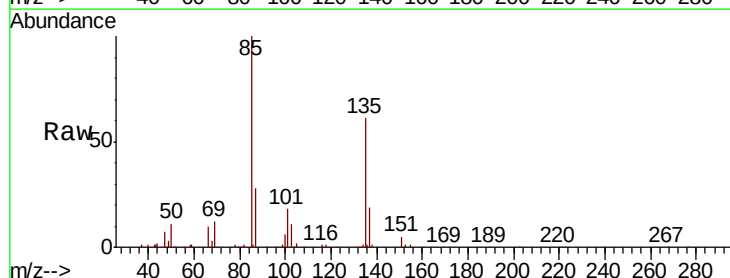
Delta R.T. 0.14 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

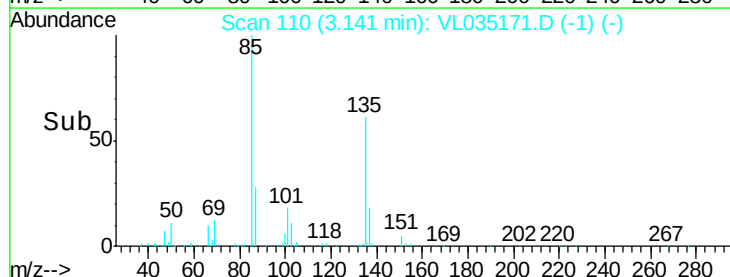
Tgt Ion: 85 Resp: 114725

Ion	Ratio	Lower	Upper
85	100		
87	28.1	27.0	40.6

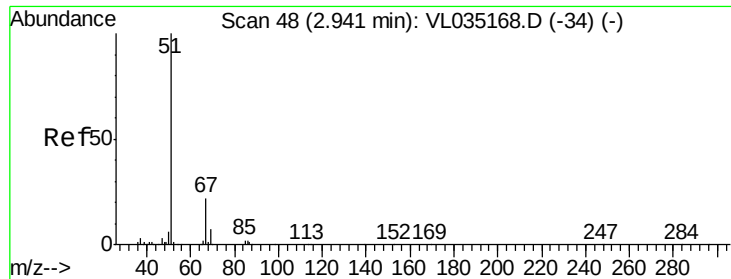


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



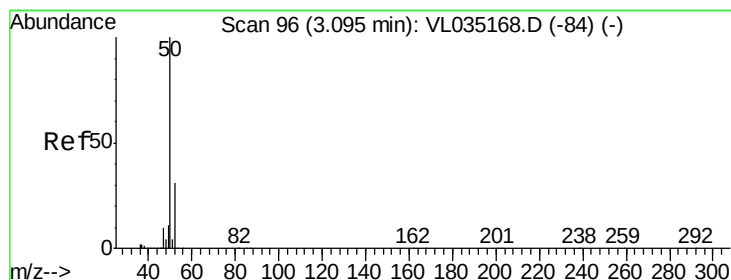
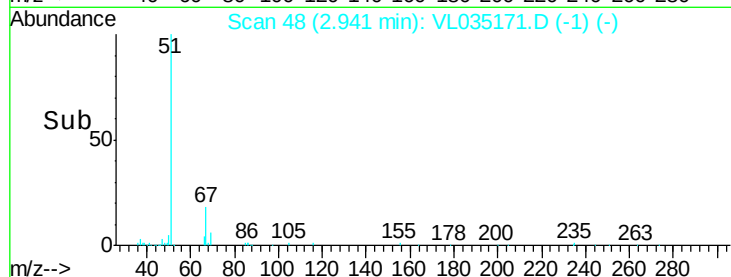
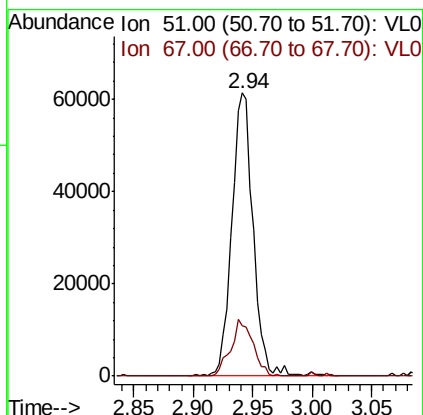
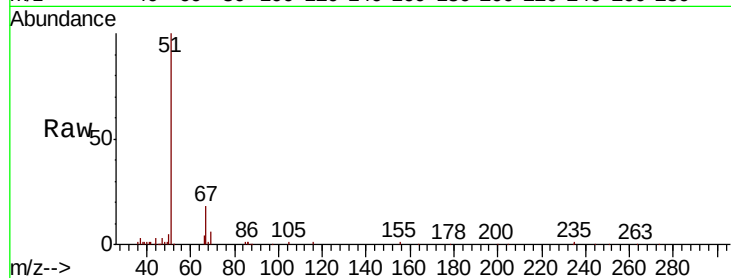
Time-->



#3
 Chlorodifluoromethane
 Concen: 0.562 ppbv
 RT: 2.94 min Scan# 48
 Delta R.T. 0.00 min
 Lab File: VL035171.D
 Acq: 8 Jul 2020 4:33

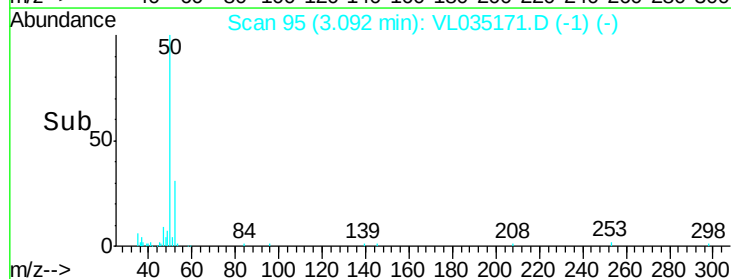
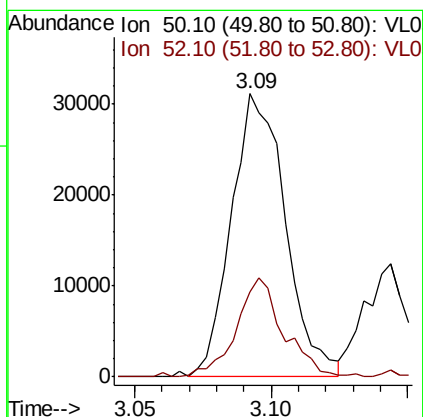
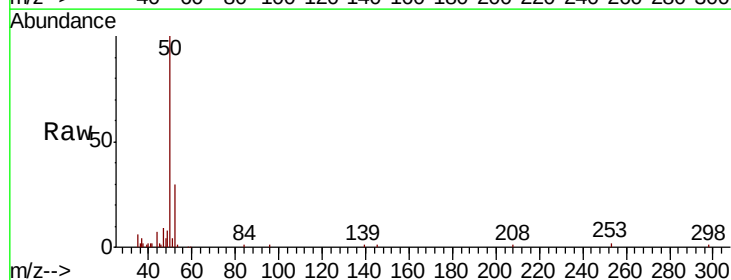
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

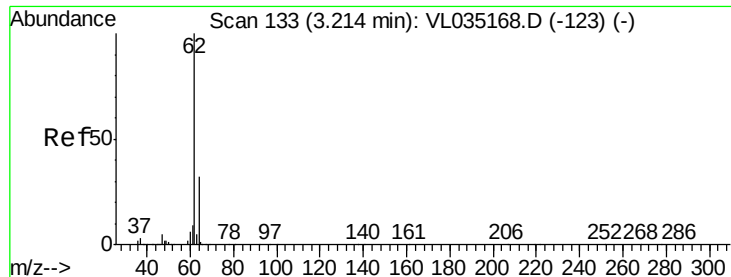
Tot Ion: 51 Resp: 76121
 Ion Ratio Lower Upper
 51 100
 67 20.8 16.6 24.8



#4
 Chloromethane
 Concen: 0.567 ppbv
 RT: 3.09 min Scan# 95
 Delta R.T. -0.00 min
 Lab File: VL035171.D
 Acq: 8 Jul 2020 4:33

Tgt Ion: 50 Resp: 42942
 Ion Ratio Lower Upper
 50 100
 52 28.4 25.0 37.6





#5

Vinyl Chloride

Concen: 0.576 ppbv

RT: 3.21 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

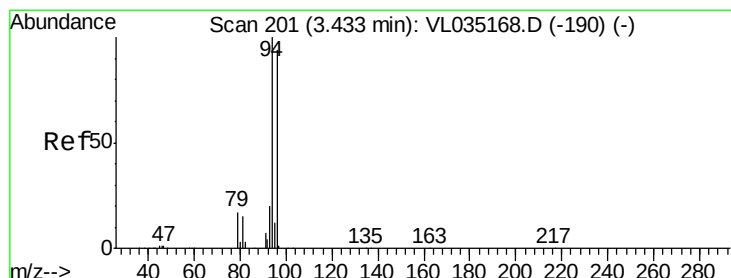
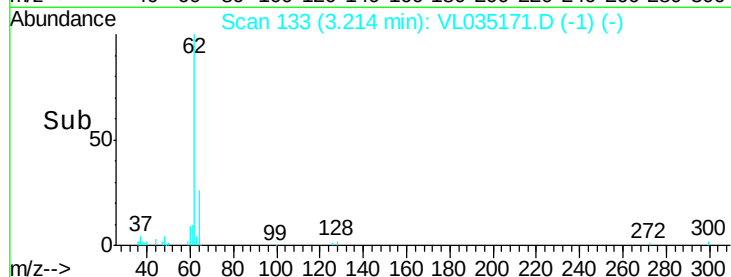
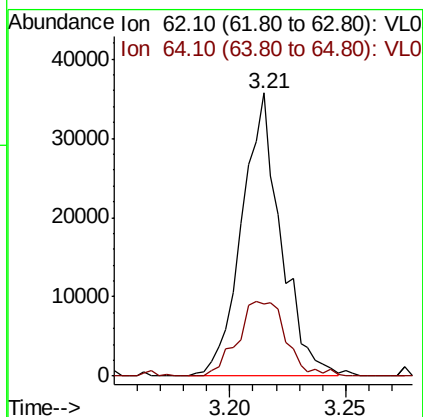
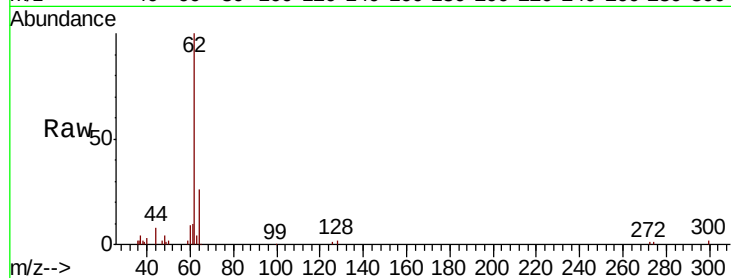
VSTDIC0.5

Tot Ion: 62 Resp: 41818

Ion Ratio Lower Upper

62 100

64 25.6 25.9 38.9#



#6

Bromomethane

Concen: 0.552 ppbv

RT: 3.43 min Scan# 201

Delta R.T. 0.00 min

Lab File: VL035171.D

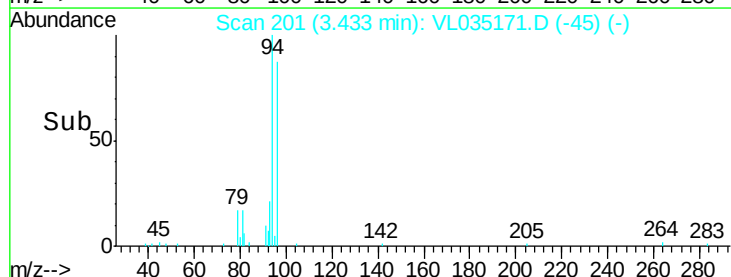
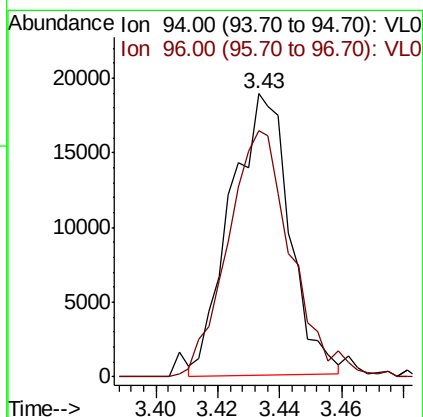
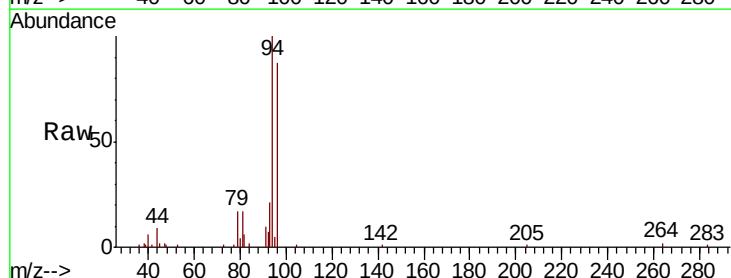
Acq: 8 Jul 2020 4:33

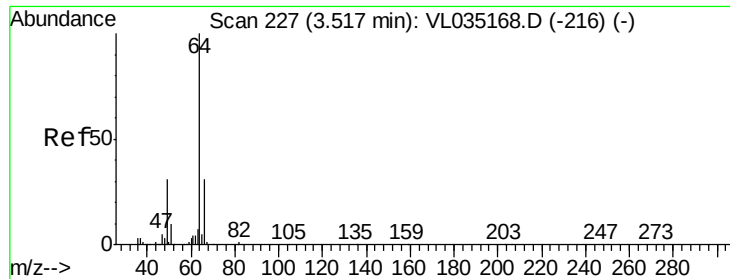
Tgt Ion: 94 Resp: 25067

Ion Ratio Lower Upper

94 100

96 87.4 74.8 112.2





#7

Chloroethane

Concen: 0.330 ppbv

RT: 3.51 min Scan# 226

Delta R.T. -0.00 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

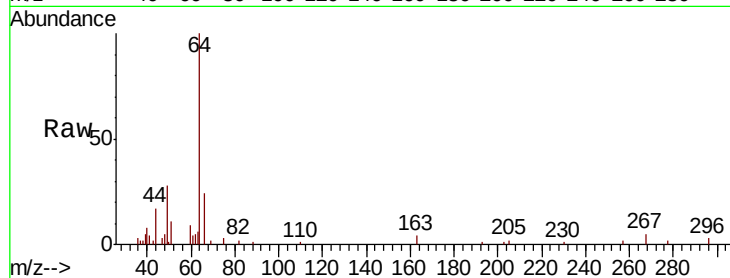
VSTDIC0.5

Tot Ion: 64 Resp: 9100

Ion Ratio Lower Upper

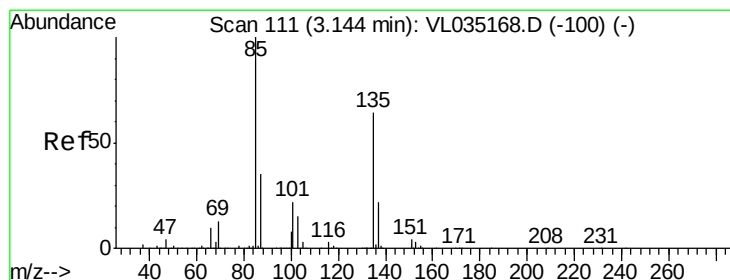
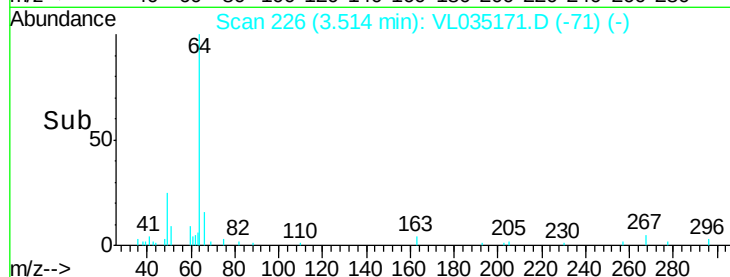
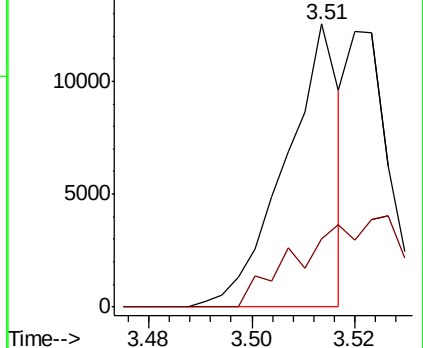
64 100

66 24.0 24.6 36.8#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.640 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL035171.D

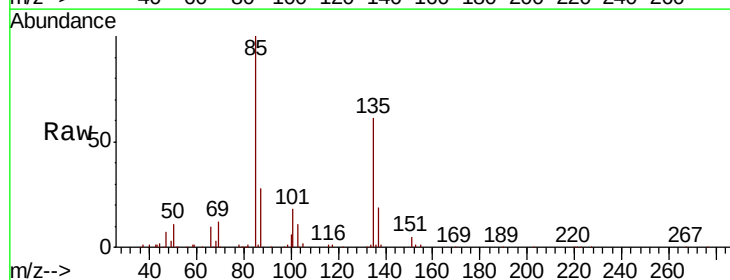
Acq: 8 Jul 2020 4:33

Tgt Ion: 85 Resp: 114725

Ion Ratio Lower Upper

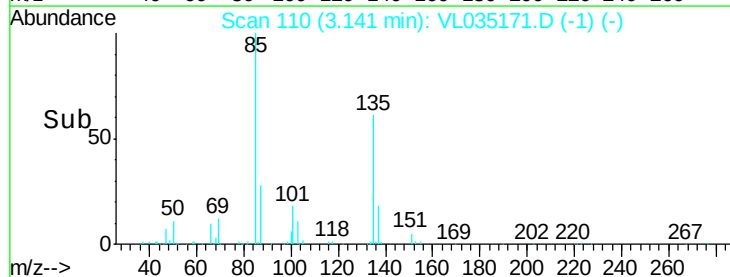
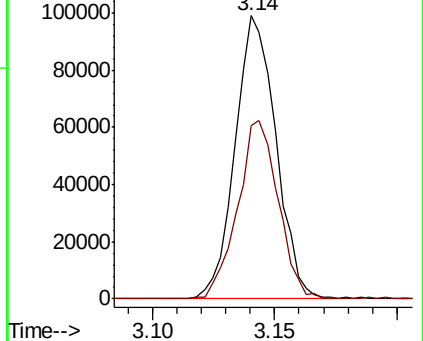
85 100

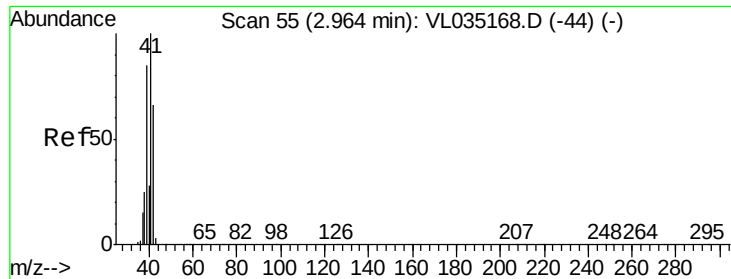
135 62.7 52.1 78.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.470 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.00 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

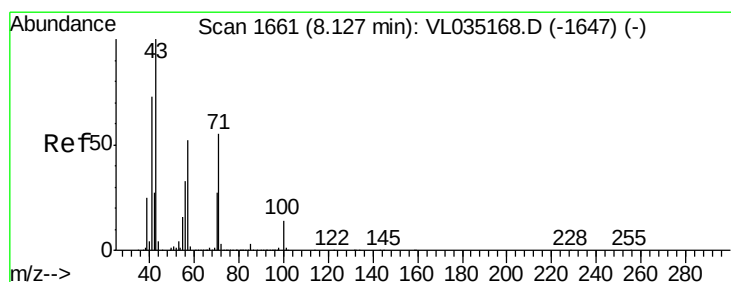
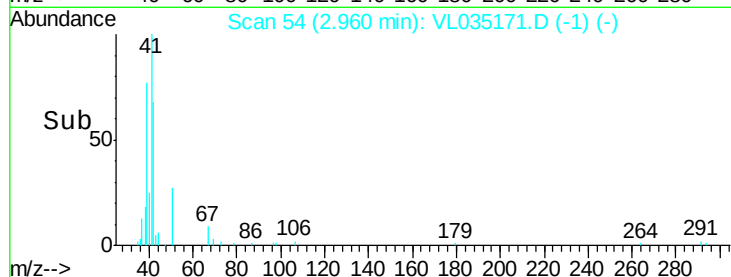
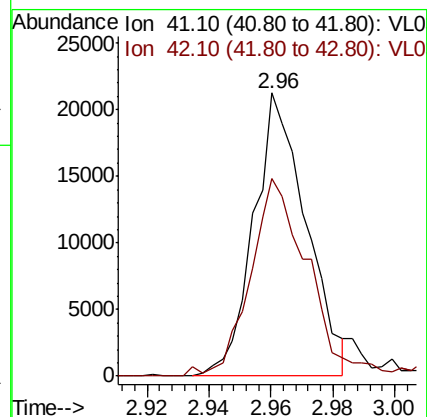
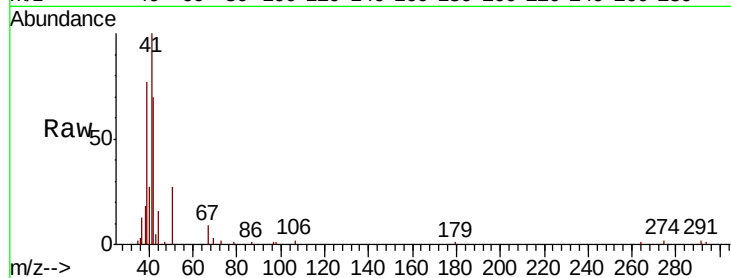
VSTDIC0.5

Tot Ion: 41 Resp: 25060

Ion Ratio Lower Upper

41 100

42 78.9 54.6 81.8



#10

Heptane

Concen: 0.436 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VL035171.D

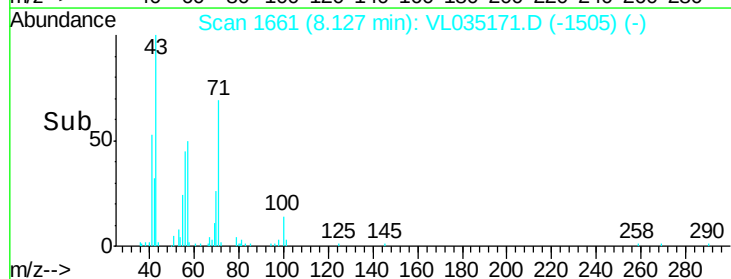
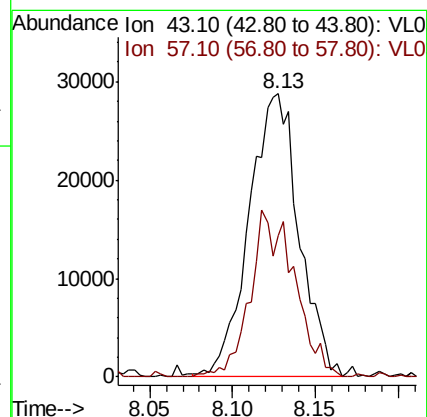
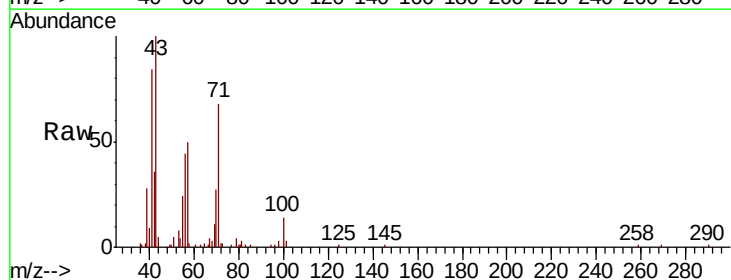
Acq: 8 Jul 2020 4:33

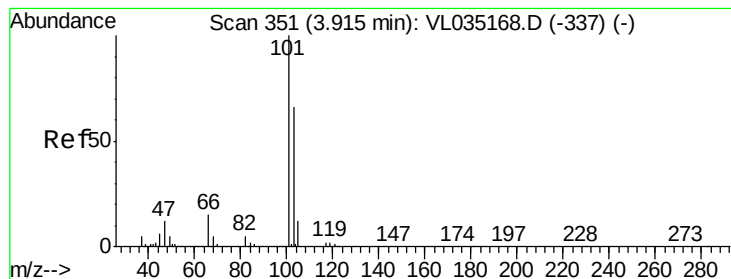
Tgt Ion: 43 Resp: 60550

Ion Ratio Lower Upper

43 100

57 51.8 41.8 62.6





#11

Trichlorofluoromethane

Concen: 0.628 ppbv

RT: 3.92 min Scan# 351

Delta R.T. 0.00 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

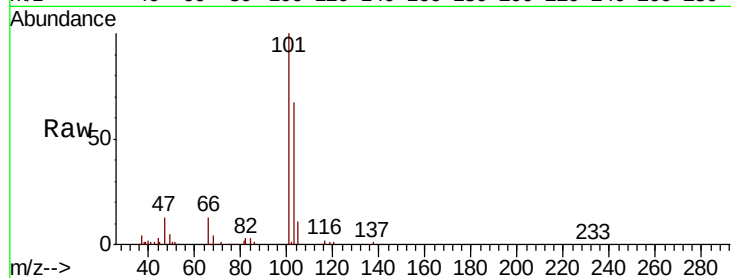
VSTDIC0.5

Tot Ion:101 Resp: 113335

Ion Ratio Lower Upper

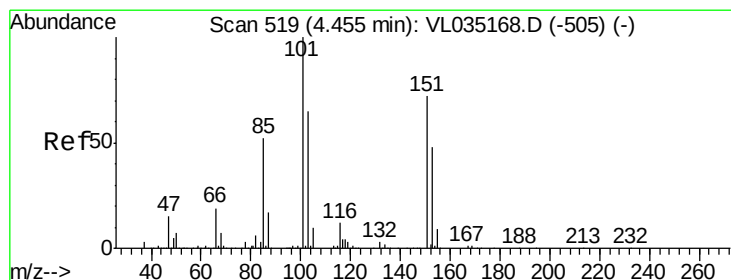
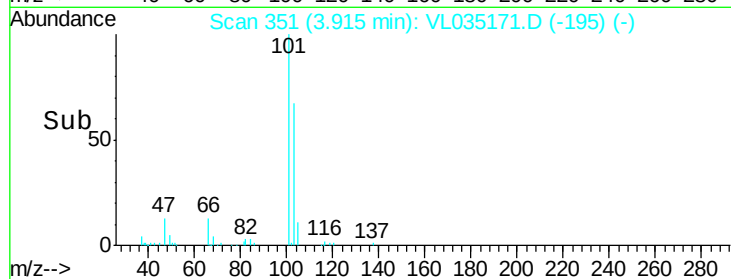
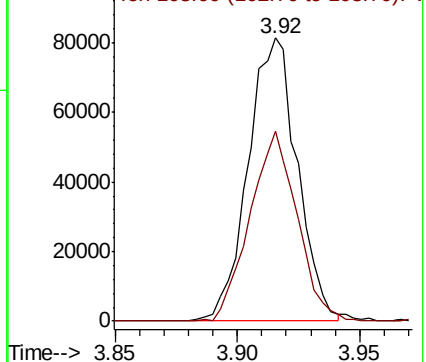
101 100

103 67.0 53.1 79.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.642 ppbv

RT: 4.46 min Scan# 519

Delta R.T. 0.00 min

Lab File: VL035171.D

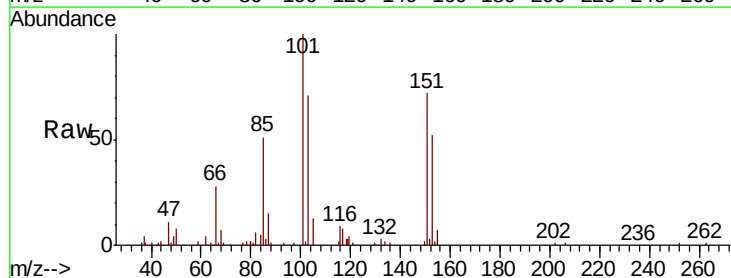
Acq: 8 Jul 2020 4:33

Tgt Ion:101 Resp: 80250

Ion Ratio Lower Upper

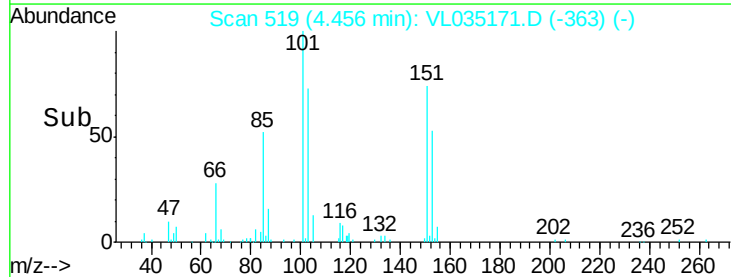
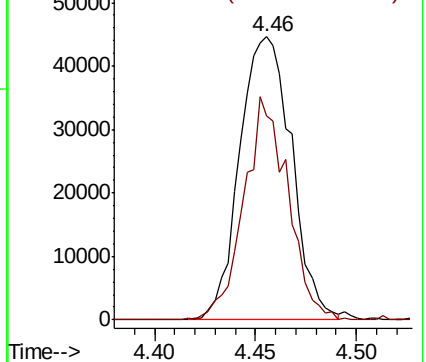
101 100

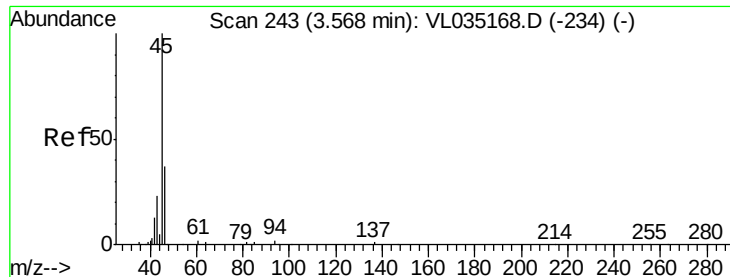
151 66.8 57.0 85.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 0.528 ppbv

RT: 3.57 min Scan# 244

Delta R.T. 0.00 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

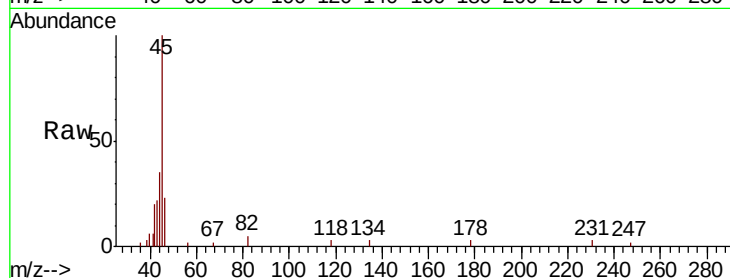
VSTDIC0.5

Tot Ion: 45 Resp: 10428

Ion Ratio Lower Upper

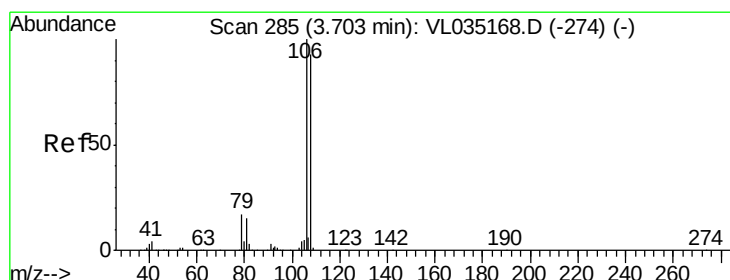
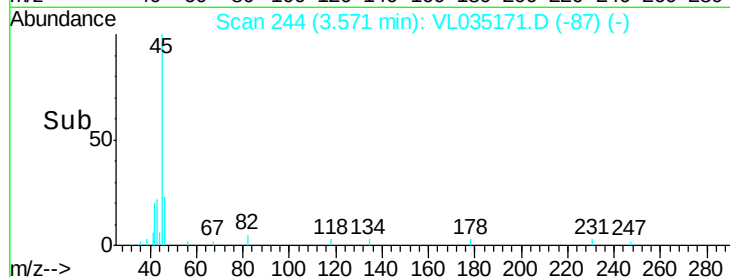
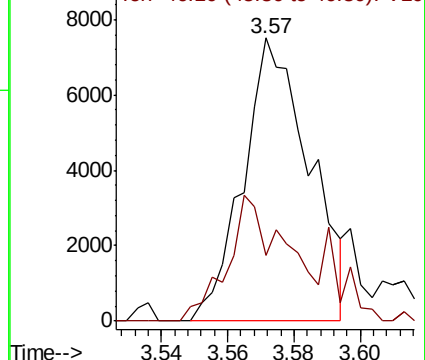
45 100

46 51.2 16.2 65.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 0.554 ppbv

RT: 3.70 min Scan# 284

Delta R.T. -0.00 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

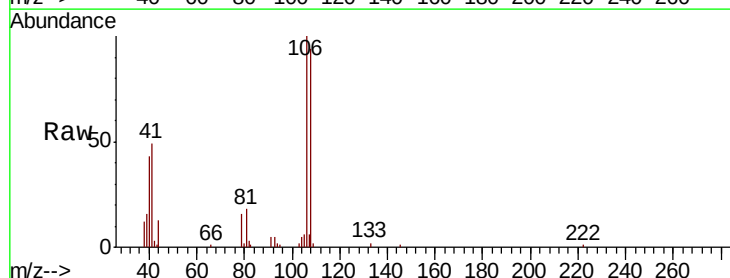
Tgt Ion: 108 Resp: 29650

Ion Ratio Lower Upper

108 100

106 116.7 86.2 129.2

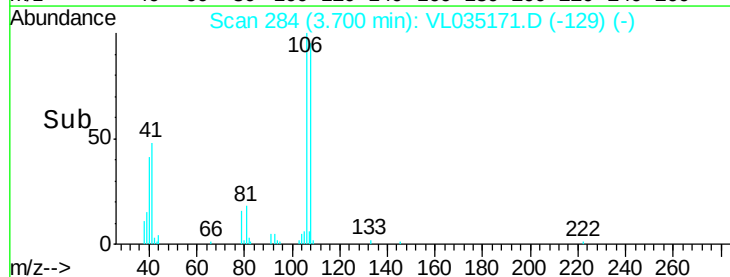
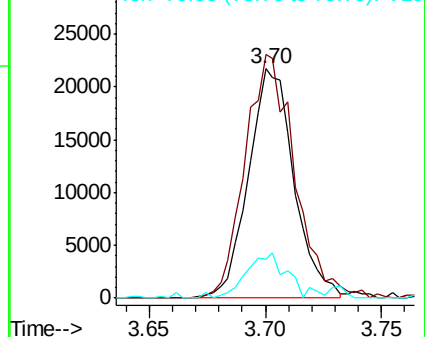
79 20.4 15.0 22.6

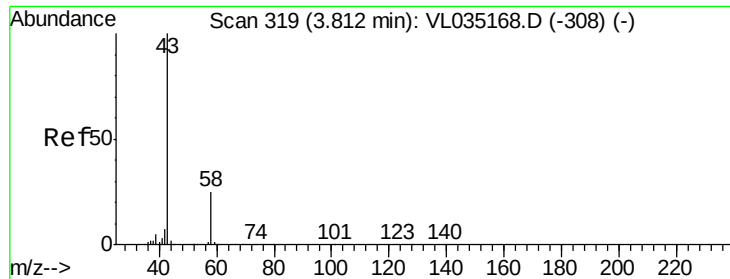


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 0.706 ppbv

RT: 3.83 min Scan# 323

Delta R.T. 0.01 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

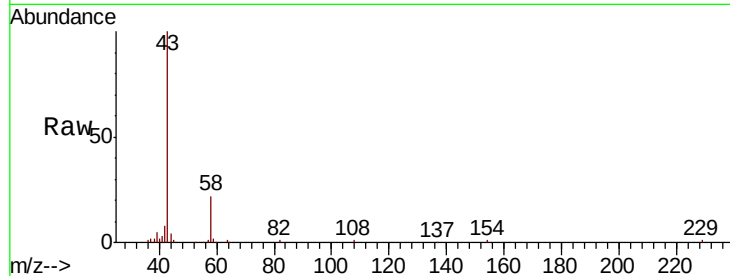
VSTDIC0.5

Tot Ion: 43 Resp: 106163

Ion Ratio Lower Upper

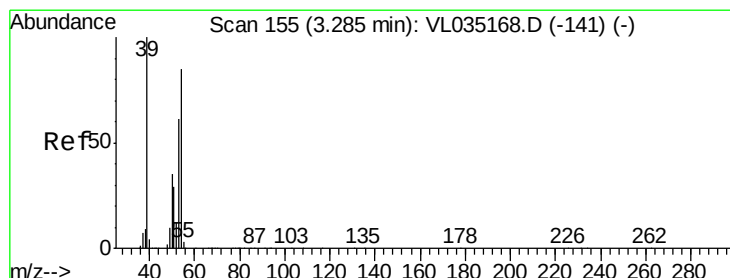
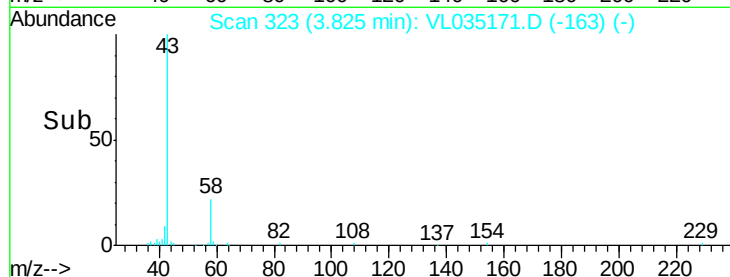
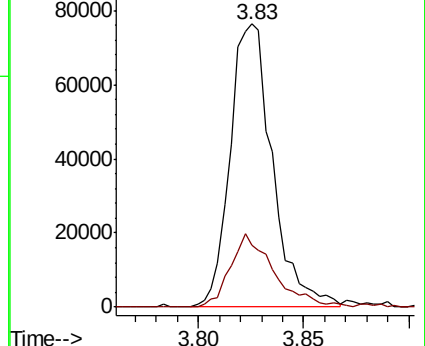
43 100

58 27.3 21.3 31.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.510 ppbv

RT: 3.29 min Scan# 156

Delta R.T. 0.00 min

Lab File: VL035171.D

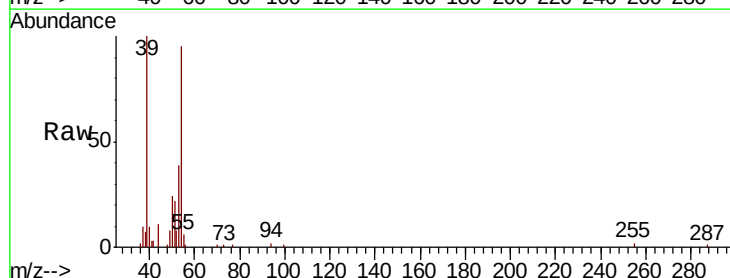
Acq: 8 Jul 2020 4:33

Tgt Ion: 39 Resp: 33271

Ion Ratio Lower Upper

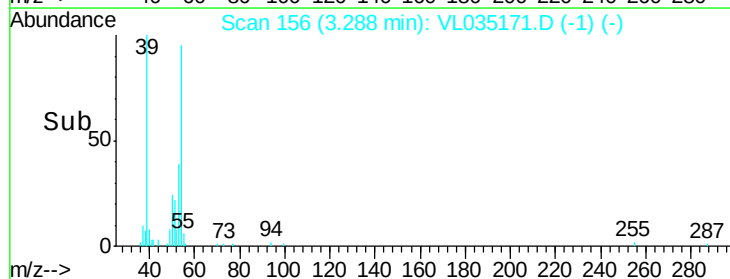
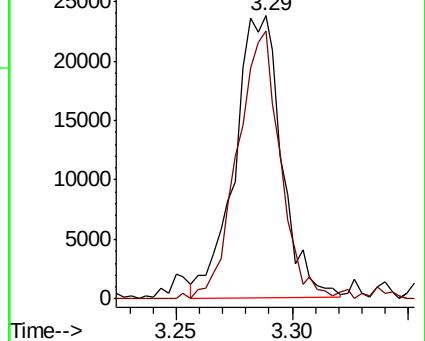
39 100

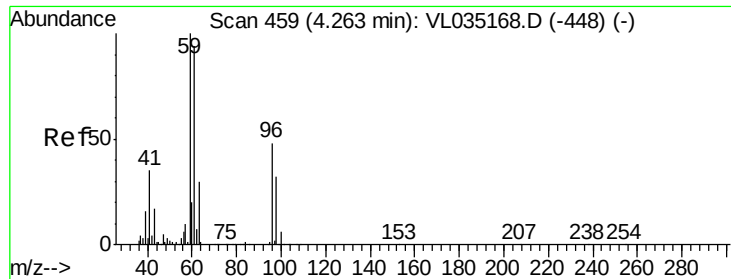
54 89.4 67.2 100.8



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



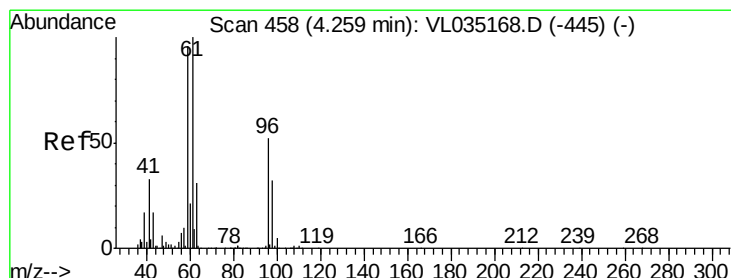
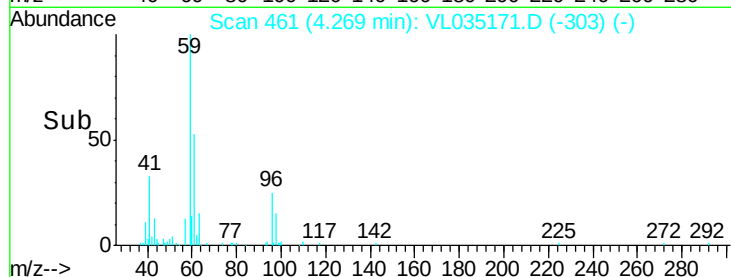
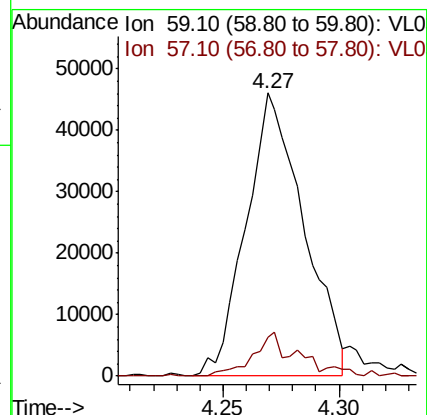
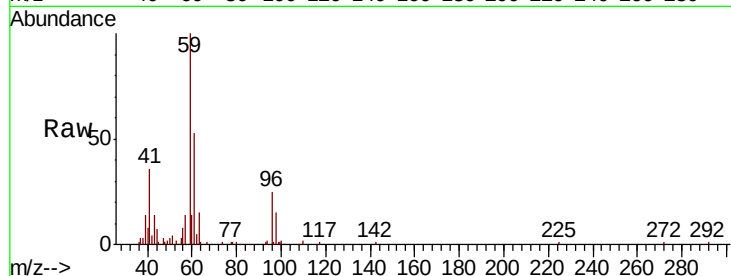


#17

tert-Butyl alcohol
 Concen: 0.594 ppbv
 RT: 4.27 min Scan# 461
 Delta R.T. 0.01 min
 Lab File: VL035171.D
 Acq: 8 Jul 2020 4:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

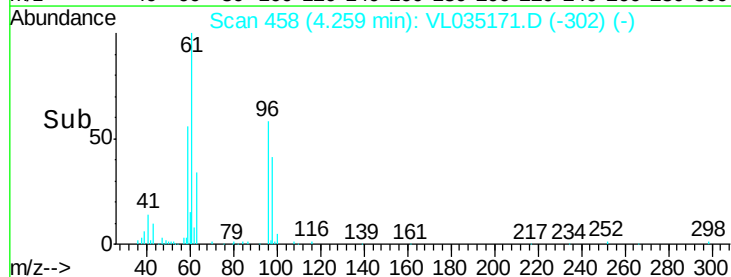
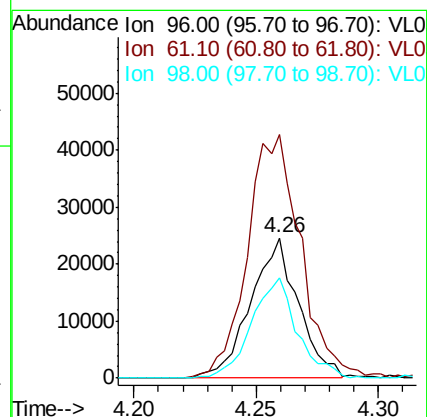
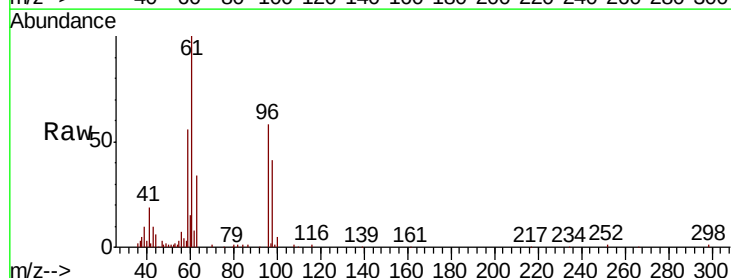
Tot Ion: 59 Resp: 79522
 Ion Ratio Lower Upper
 59 100
 57 12.5 8.6 12.8

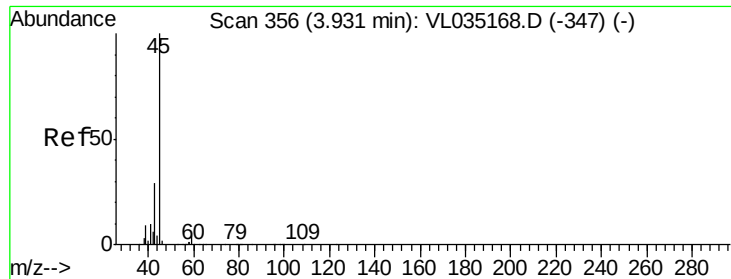


#18

1,1-Dichloroethene
 Concen: 0.593 ppbv
 RT: 4.26 min Scan# 458
 Delta R.T. 0.00 min
 Lab File: VL035171.D
 Acq: 8 Jul 2020 4:33

Tgt Ion: 96 Resp: 33375
 Ion Ratio Lower Upper
 96 100
 61 185.9 152.9 229.3
 98 72.9 48.7 73.1





#19

Isopropyl Alcohol

Concen: 0.321 ppbv

RT: 3.94 min Scan# 358

Delta R.T. 0.01 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

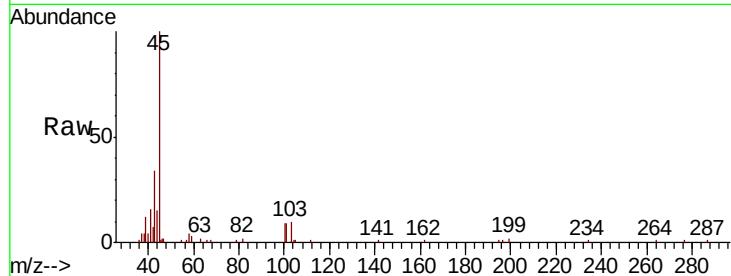
VSTDIC0.5

Tot Ion: 45 Resp: 31014

Ion Ratio Lower Upper

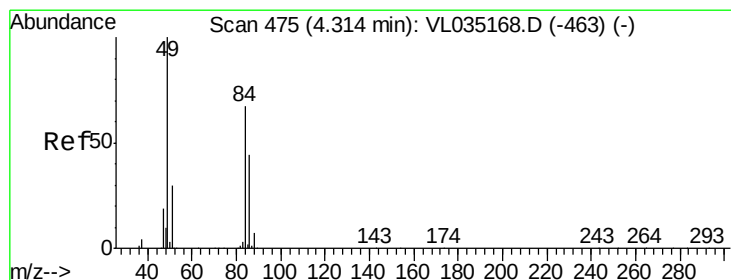
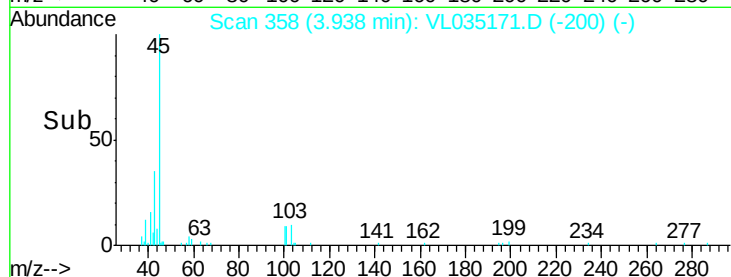
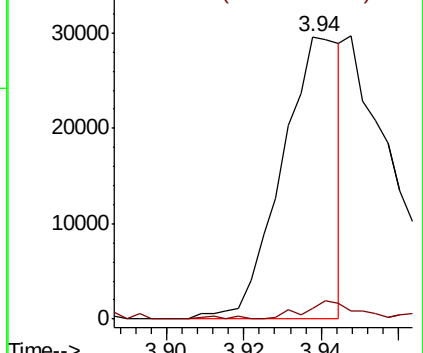
45 100

58 7.5 2.1 3.1#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.794 ppbv

RT: 4.31 min Scan# 475

Delta R.T. 0.00 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Tgt Ion: 84 Resp: 48593

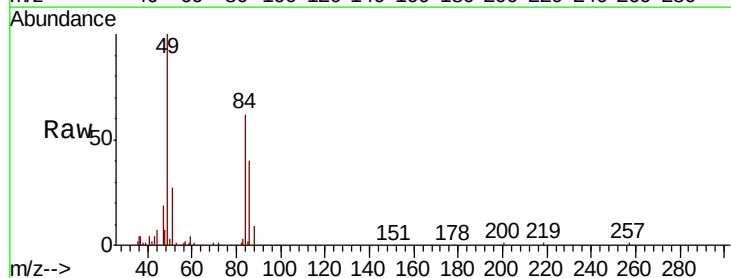
Ion Ratio Lower Upper

84 100

49 160.2 119.4 179.0

51 44.4 36.6 55.0

86 64.2 52.5 78.7

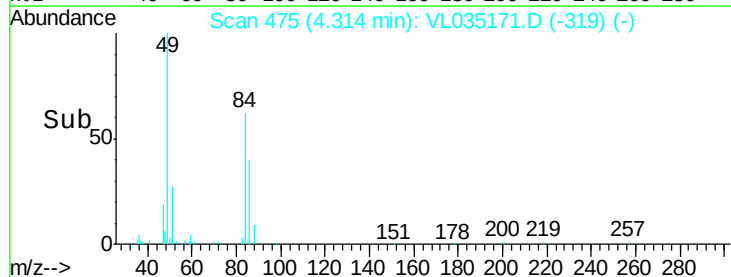
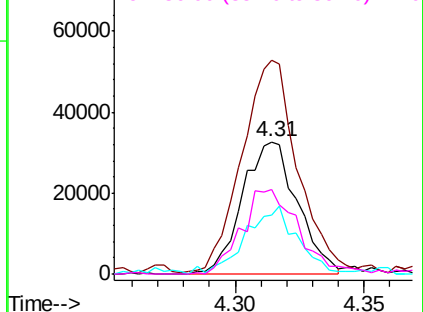


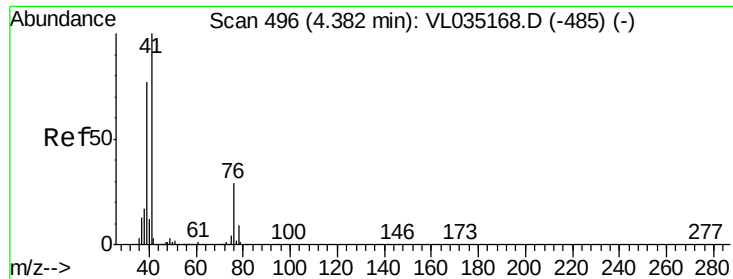
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allvl Chloride

Concen: 0.605 ppbv

RT: 4.38 min Scan# 496

Delta R.T. 0.00 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

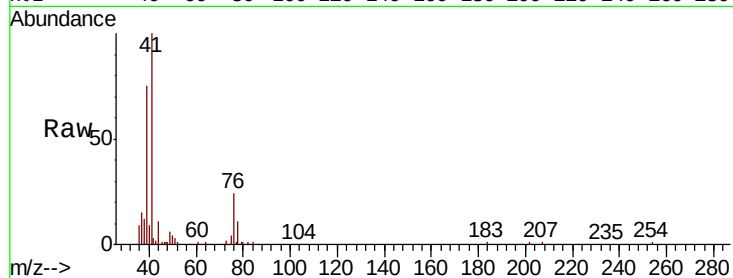
Tot Ion: 41 Resp: 53941

Ion Ratio Lower Upper

41 100

76 27.0 23.5 35.3

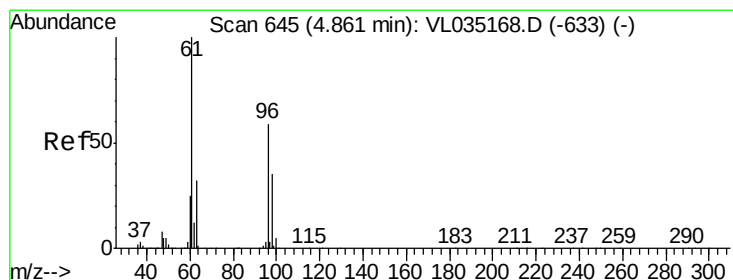
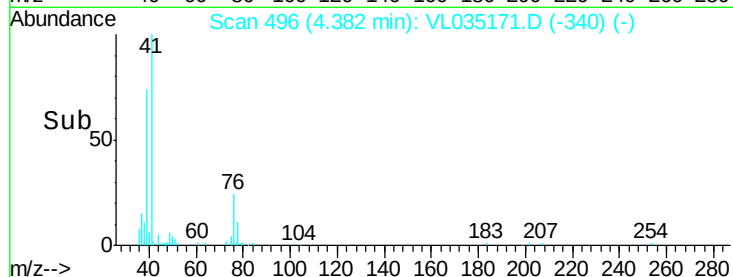
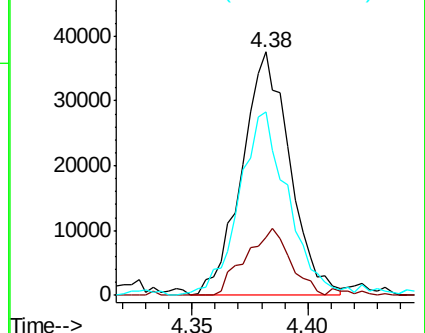
39 80.0 63.4 95.0



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.649 ppbv

RT: 4.86 min Scan# 645

Delta R.T. 0.00 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

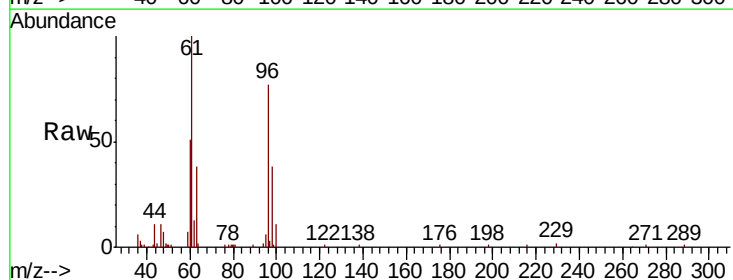
Tgt Ion: 96 Resp: 34455

Ion Ratio Lower Upper

96 100

61 127.2 136.5 204.7#

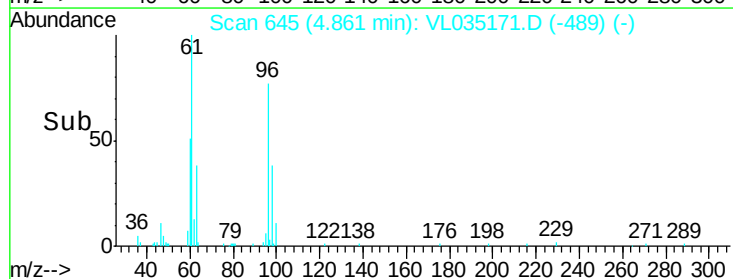
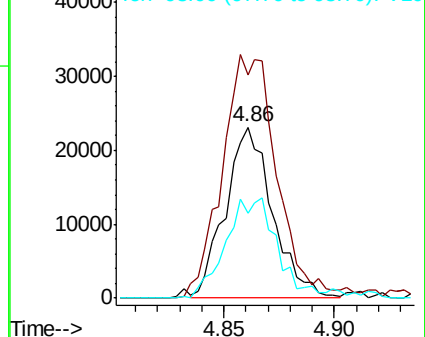
98 50.4 47.5 71.3

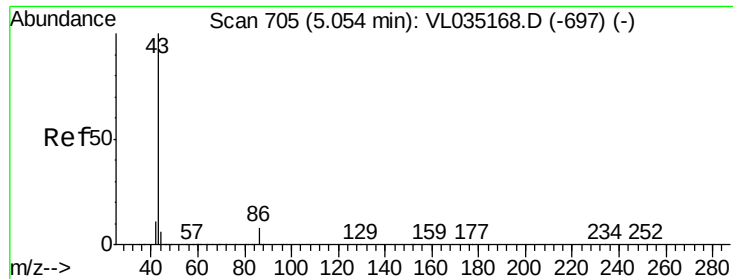


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 0.450 ppbv

RT: 5.05 min Scan# 704

Delta R.T. -0.00 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 80921

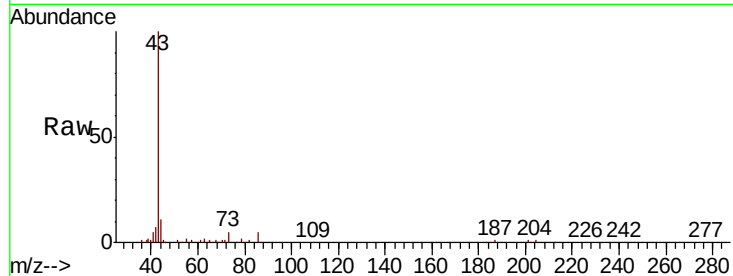
Ion Ratio Lower Upper

43 100

86 6.0 6.2 9.2#

42 5.8 9.1 13.7#

44 7.3 4.6 6.8#

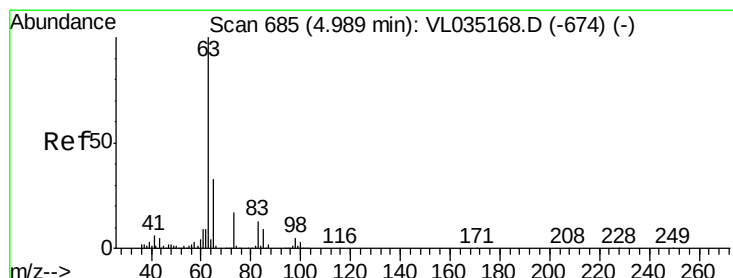
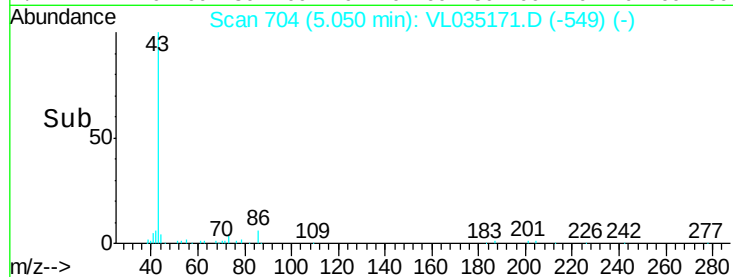
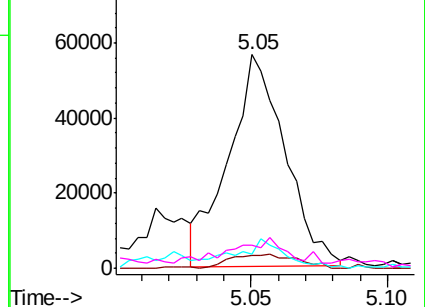


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.562 ppbv

RT: 4.99 min Scan# 684

Delta R.T. -0.00 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

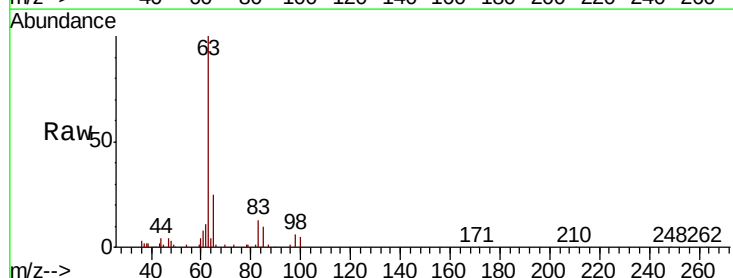
Tgt Ion: 63 Resp: 85726

Ion Ratio Lower Upper

63 100

98 5.8 2.4 7.1

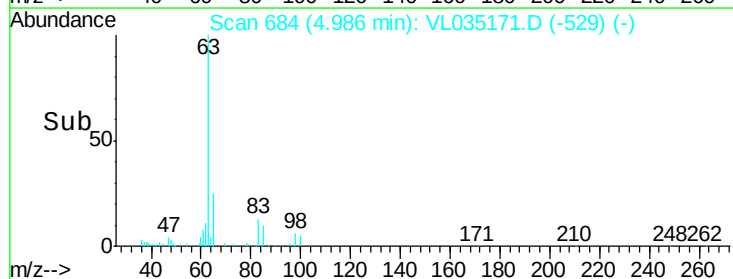
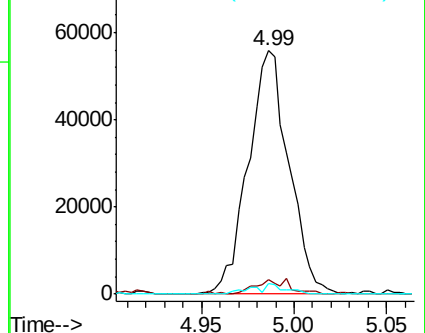
100 4.5 1.4 4.0#

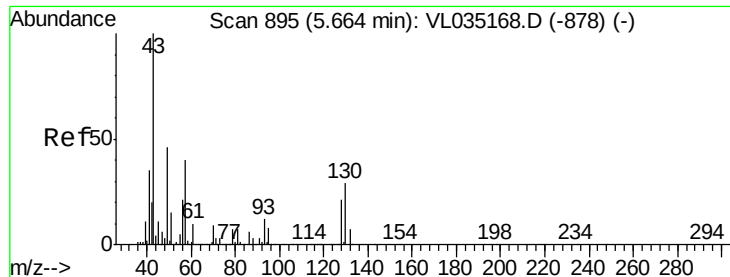


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

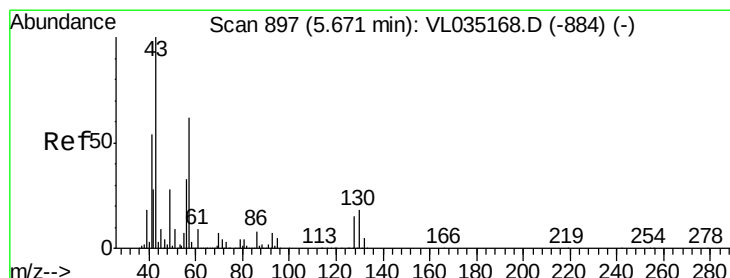
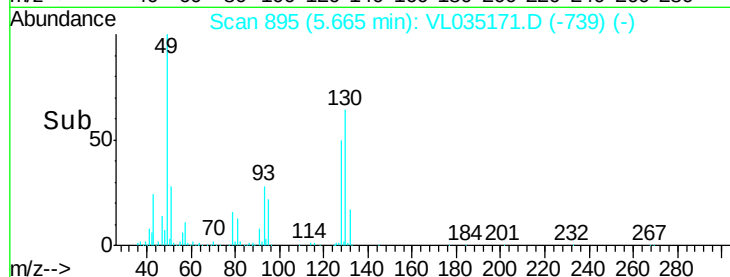
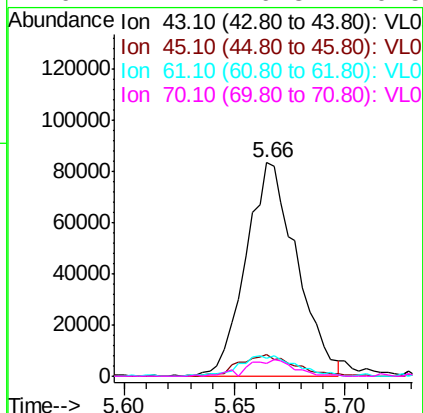
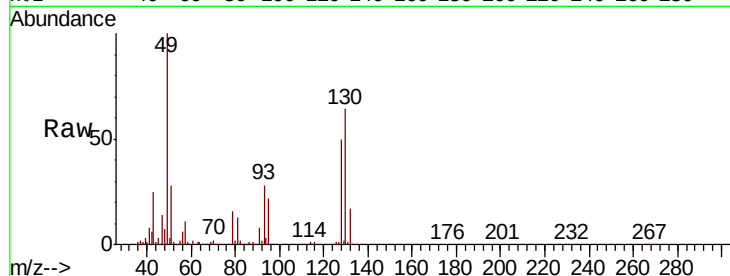




#25
Ethyl Acetate
Concen: 0.497 ppbv
RT: 5.66 min Scan# 895
Delta R.T. 0.00 min
Lab File: VL035171.D
Acq: 8 Jul 2020 4:33

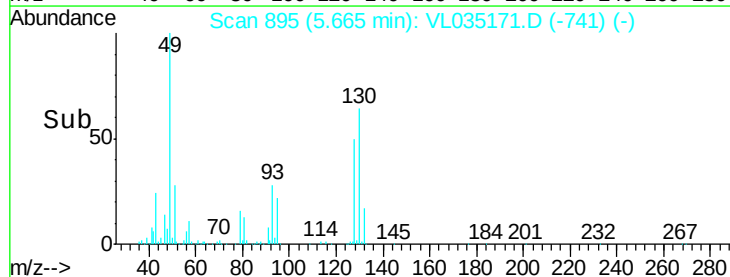
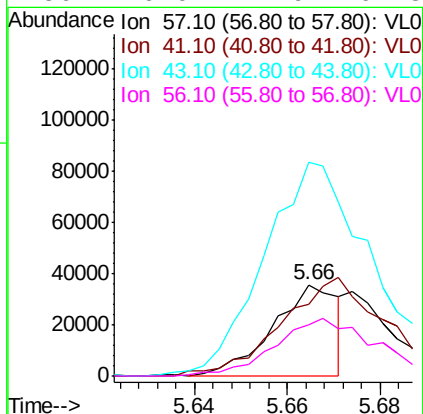
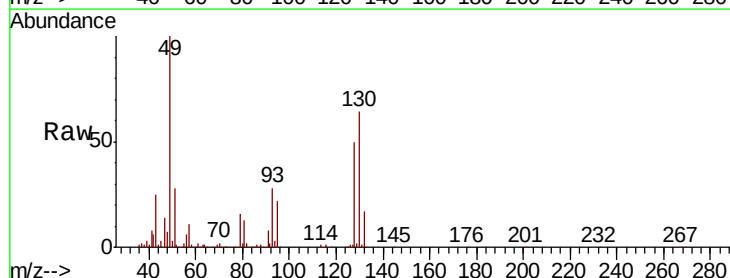
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

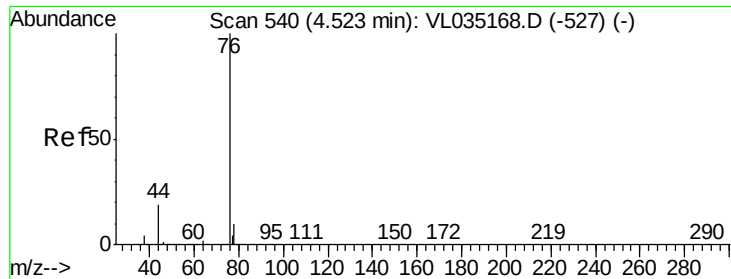
Tot Ion:	43	Resp:	133350
Ion	Ratio	Lower	Upper
43	100		
45	11.4	8.5	12.7
61	11.0	8.1	12.1
70	7.4	6.3	9.5



#26
Hexane
Concen: 0.285 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL035171.D
Acq: 8 Jul 2020 4:33

Tgt Ion:	57	Resp:	34552
Ion	Ratio	Lower	Upper
57	100		
41	0.0	72.9	109.3#
43	401.3	179.5	269.3#
56	0.0	42.9	64.3#





#27

Carbon Disulfide

Concen: 0.651 ppbv

RT: 4.52 min Scan# 540

Delta R.T. 0.00 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

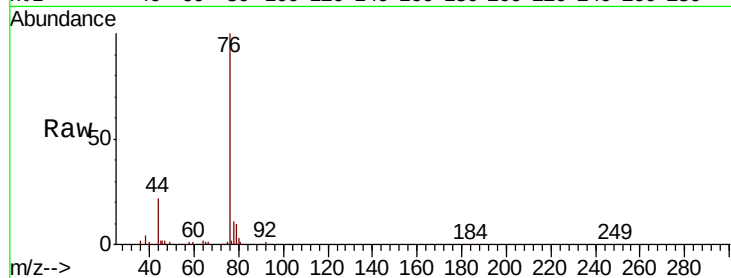
Tot Ion: 76 Resp: 84275

Ion Ratio Lower Upper

76 100

44 23.0 14.9 22.3#

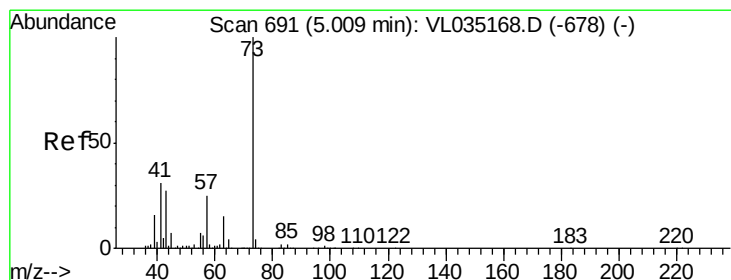
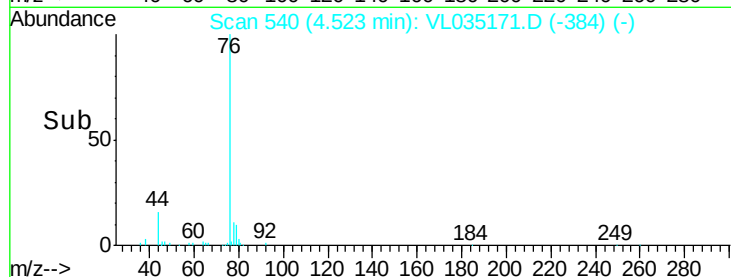
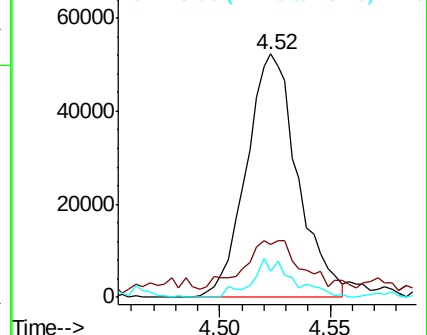
78 12.5 7.5 11.3#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.501 ppbv

RT: 5.02 min Scan# 696

Delta R.T. 0.02 min

Lab File: VL035171.D

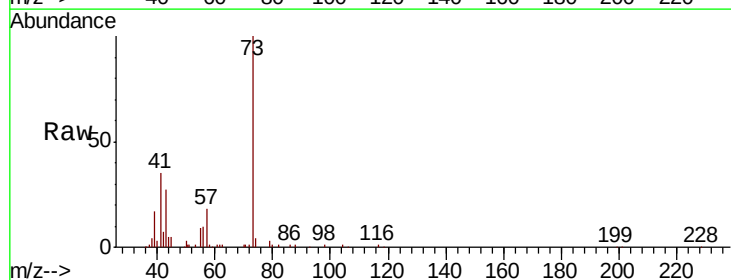
Acq: 8 Jul 2020 4:33

Tgt Ion: 73 Resp: 85550

Ion Ratio Lower Upper

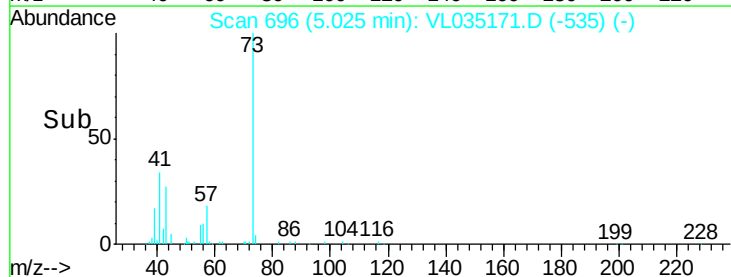
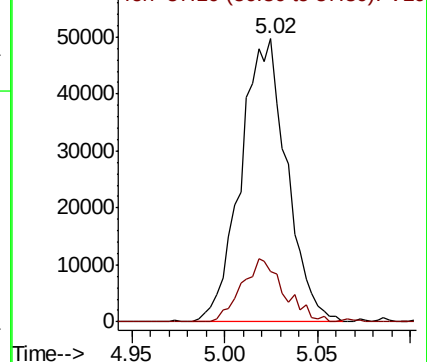
73 100

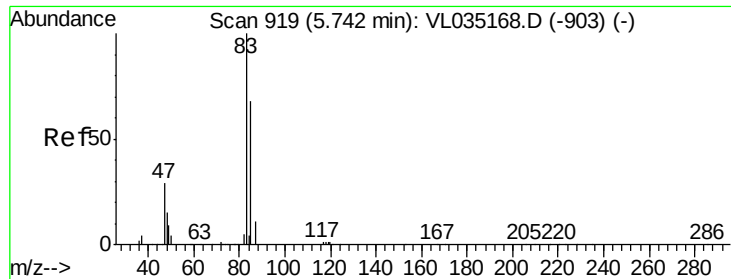
57 20.9 18.1 27.1



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

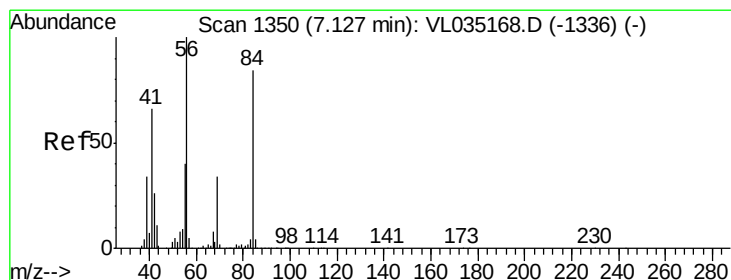
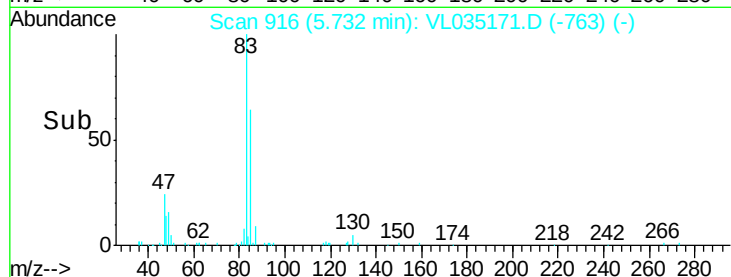
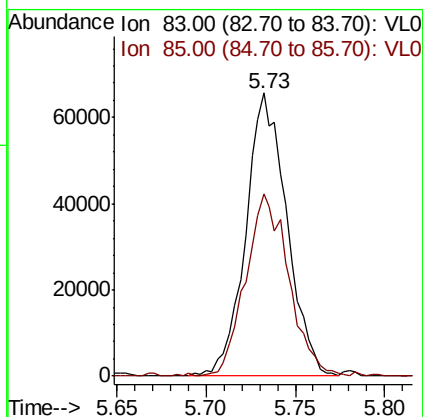
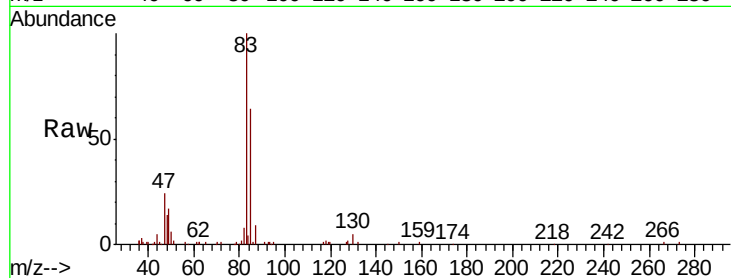




#29
Chloroform
Concen: 0.556 ppbv
RT: 5.73 min Scan# 916
Delta R.T. -0.01 min
Lab File: VL035171.D
Acq: 8 Jul 2020 4:33

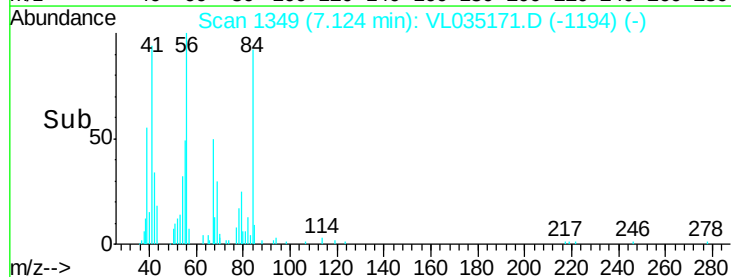
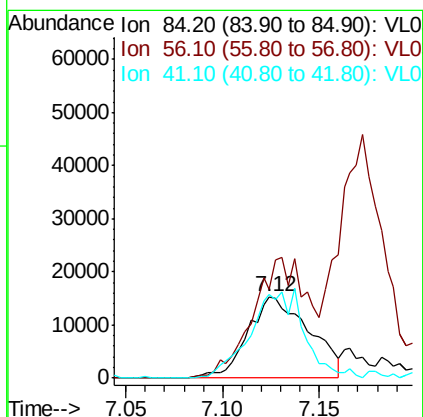
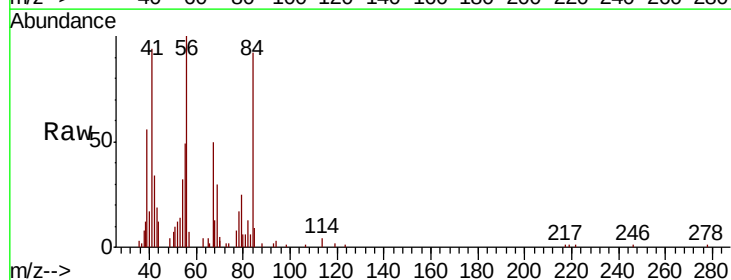
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

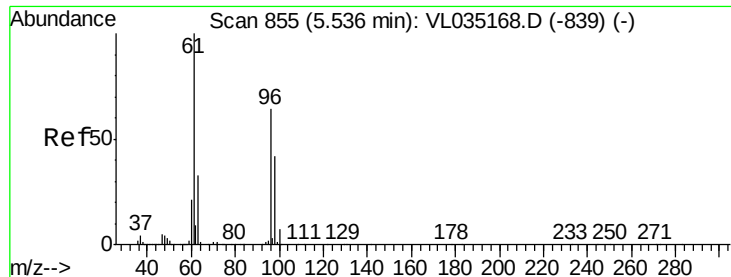
Tot Ion: 83 Resp: 105625
Ion Ratio Lower Upper
83 100
85 63.3 54.3 81.5



#30
Cyclohexane
Concen: 0.390 ppbv
RT: 7.12 min Scan# 1349
Delta R.T. -0.00 min
Lab File: VL035171.D
Acq: 8 Jul 2020 4:33

Tgt Ion: 84 Resp: 33855
Ion Ratio Lower Upper
84 100
56 131.3 105.6 158.4
41 94.9 64.9 97.3





#31

cis-1,2-Dichloroethene

Concen: 0.468 ppbv

RT: 5.53 min Scan# 854

Delta R.T. -0.00 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

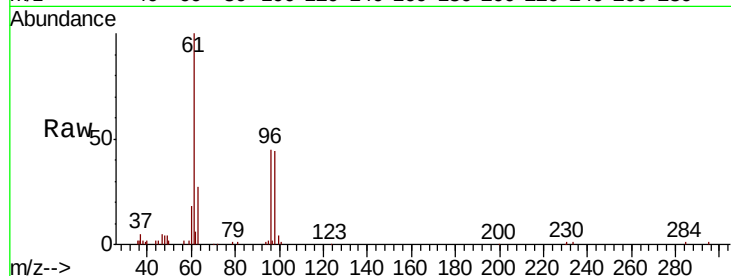
Tot Ion: 61 Resp: 51906

Ion Ratio Lower Upper

61 100

96 47.4 51.3 76.9#

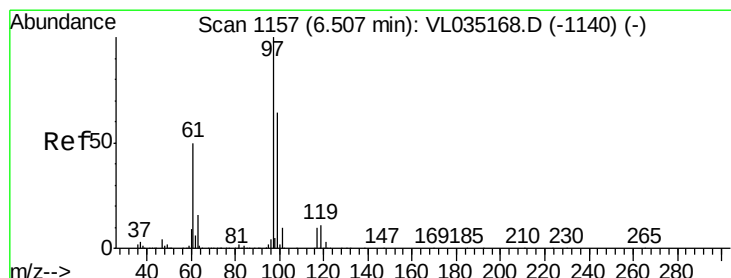
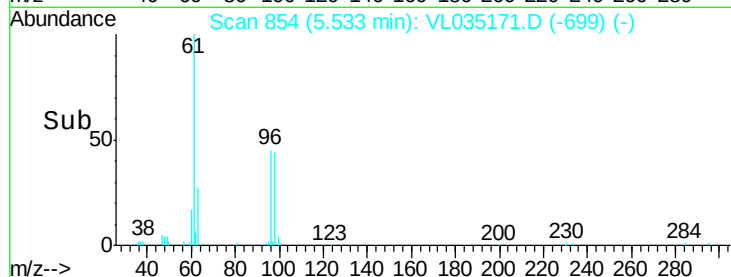
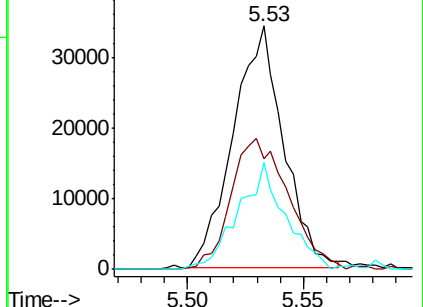
98 43.2 33.8 50.8



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.526 ppbv

RT: 6.50 min Scan# 1155

Delta R.T. -0.01 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

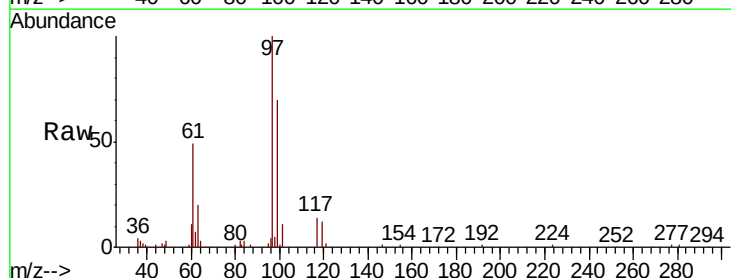
Tgt Ion: 97 Resp: 93072

Ion Ratio Lower Upper

97 100

99 66.0 51.2 76.8

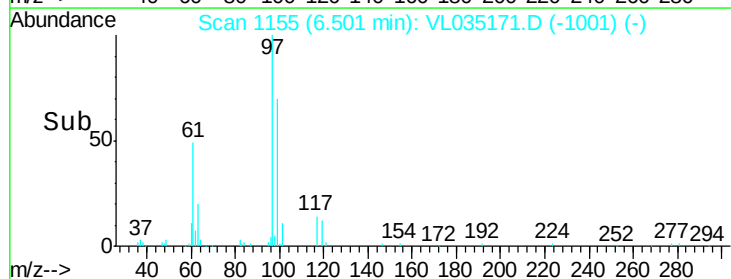
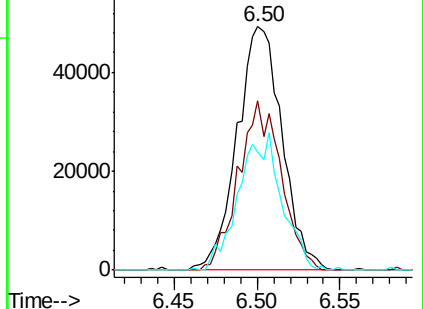
61 53.7 40.9 61.3

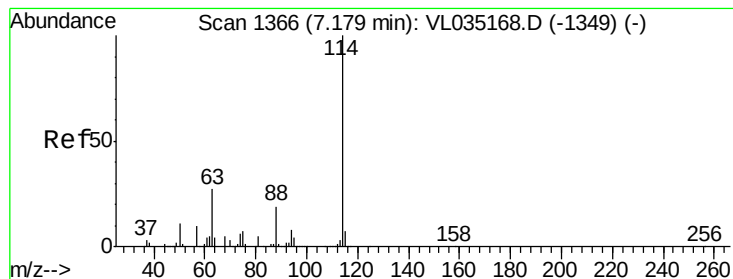


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.01 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

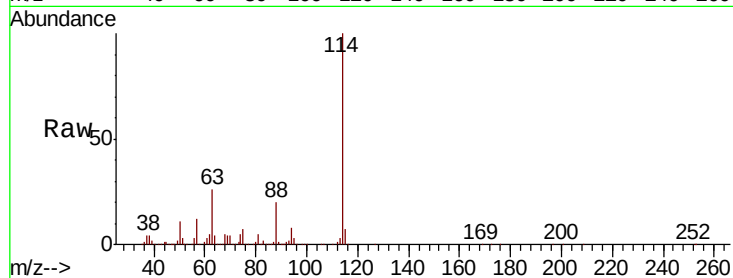
Tot Ion:114 Resp: 3029341

Ion Ratio Lower Upper

114 100

63 27.1 22.0 33.0

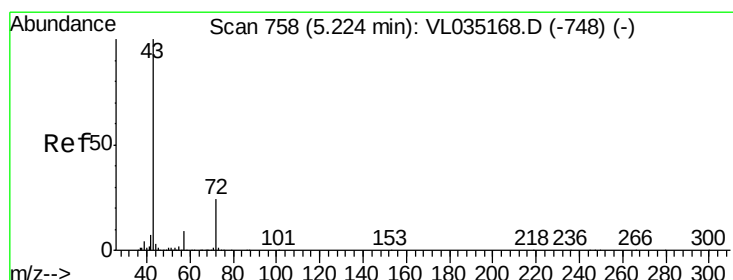
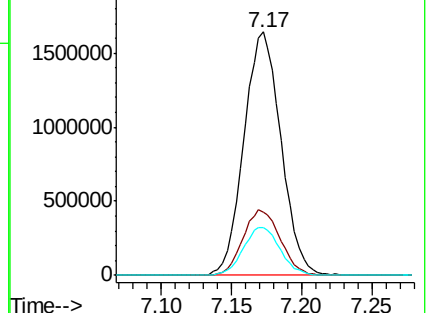
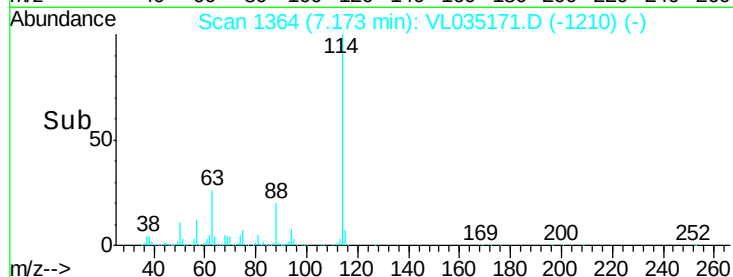
88 19.6 15.4 23.0



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.446 ppbv

RT: 5.23 min Scan# 761

Delta R.T. 0.01 min

Lab File: VL035171.D

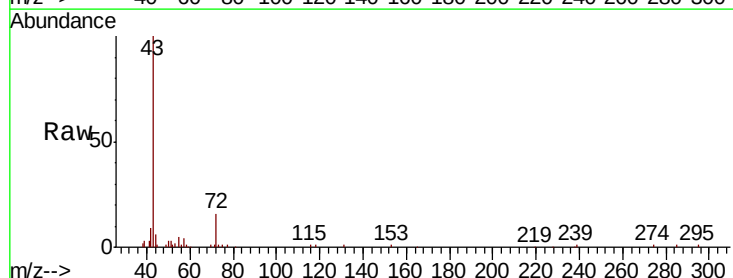
Acq: 8 Jul 2020 4:33

Tgt Ion: 43 Resp: 76420

Ion Ratio Lower Upper

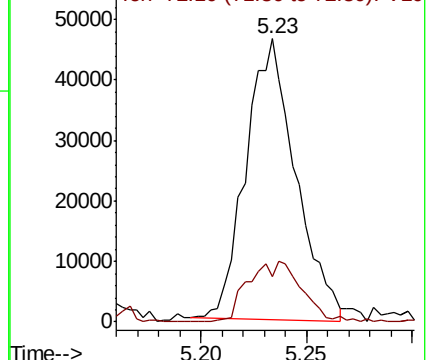
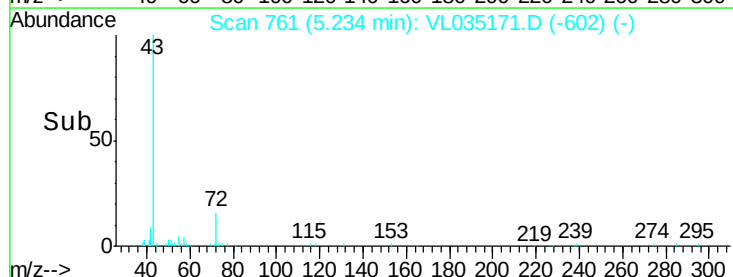
43 100

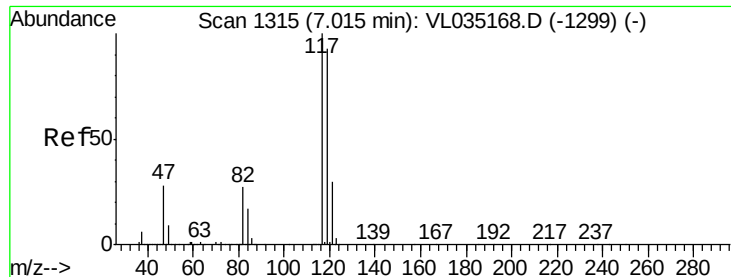
72 23.4 18.6 28.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.552 ppbv

RT: 7.01 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

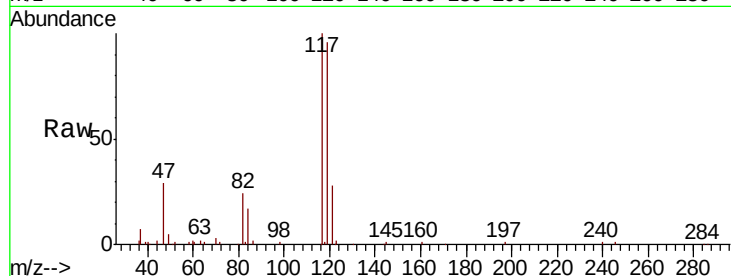
Tot Ion:117 Resp: 100624

Ion Ratio Lower Upper

117 100

119 95.8 74.8 112.2

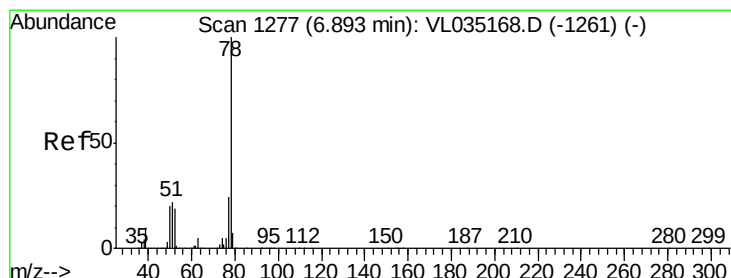
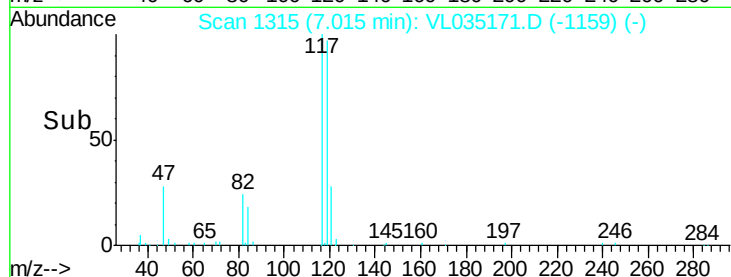
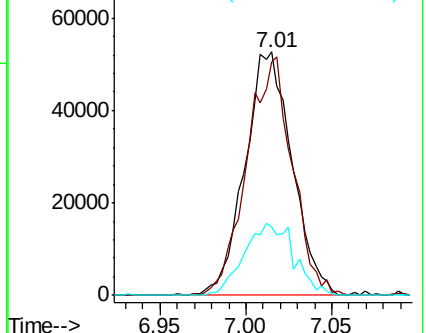
121 27.9 24.2 36.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.438 ppbv

RT: 6.88 min Scan# 1274

Delta R.T. -0.01 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

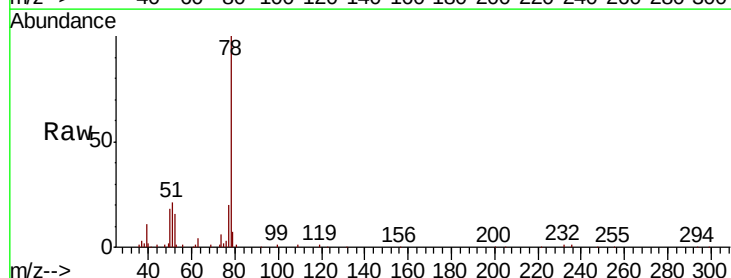
Tgt Ion: 78 Resp: 101537

Ion Ratio Lower Upper

78 100

77 19.8 19.3 28.9

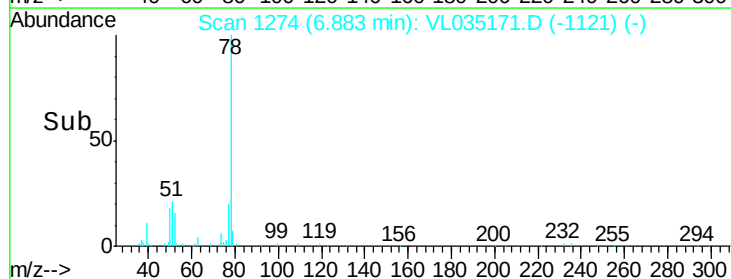
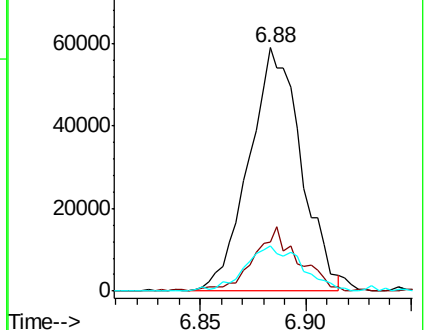
50 18.4 16.0 24.0

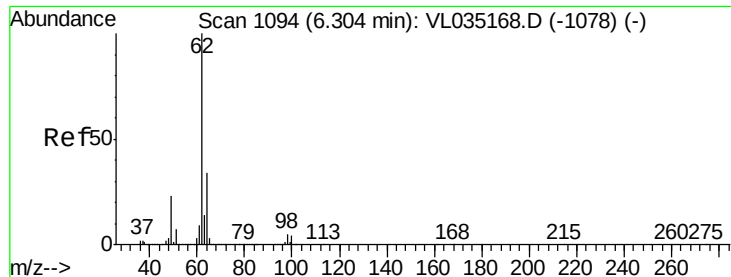


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

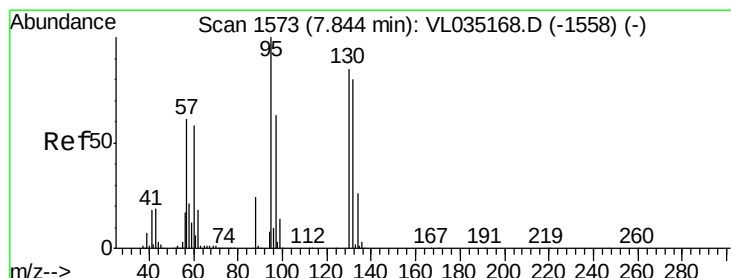
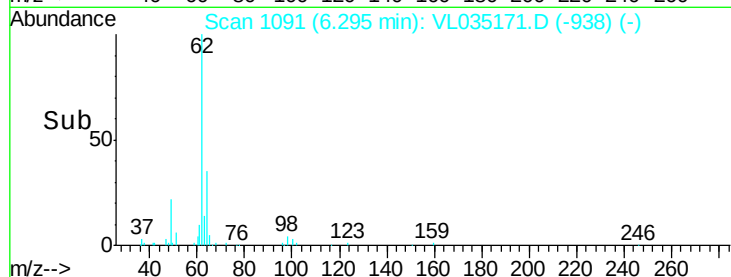
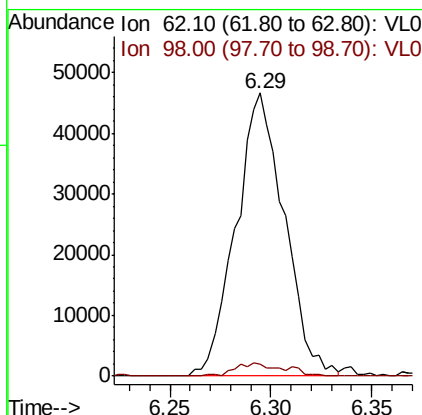
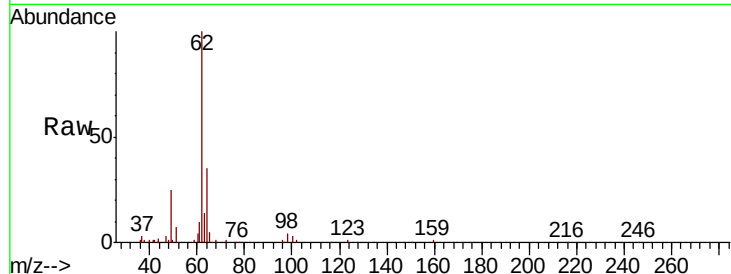




#37
 1,2-Dichloroethane
 Concen: 0.531 ppbv
 RT: 6.29 min Scan# 1091
 Delta R.T. -0.01 min
 Lab File: VL035171.D
 Acq: 8 Jul 2020 4:33

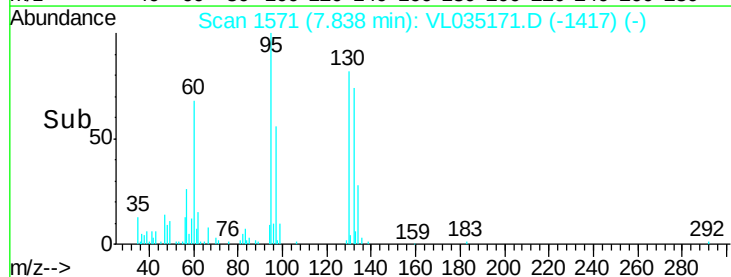
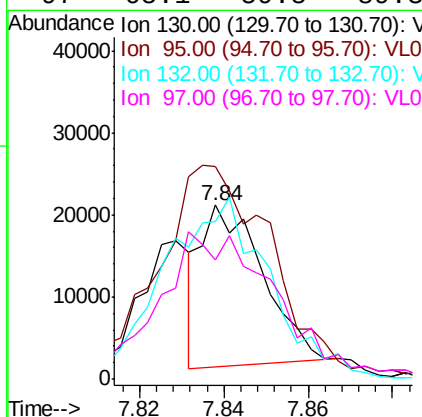
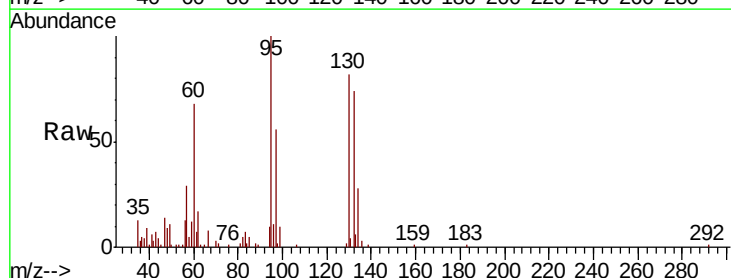
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

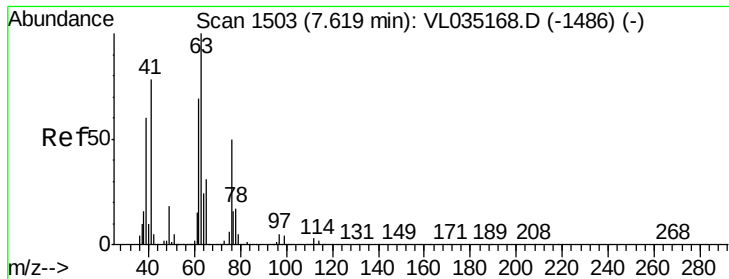
Tot Ion: 62 Resp: 78430
 Ion Ratio Lower Upper
 62 100
 98 4.7 4.6 6.8



#38
 Trichloroethene
 Concen: 0.217 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: VL035171.D
 Acq: 8 Jul 2020 4:33

Tgt Ion: 130 Resp: 19754
 Ion Ratio Lower Upper
 130 100
 95 126.7 93.8 140.8
 132 85.6 75.0 112.4
 97 65.1 59.5 89.3





#39

1,2-Dichloropropane

Concen: 0.462 ppbv

RT: 7.62 min Scan# 1502

Delta R.T. -0.00 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

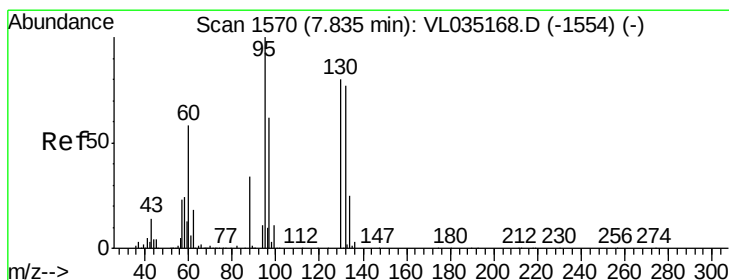
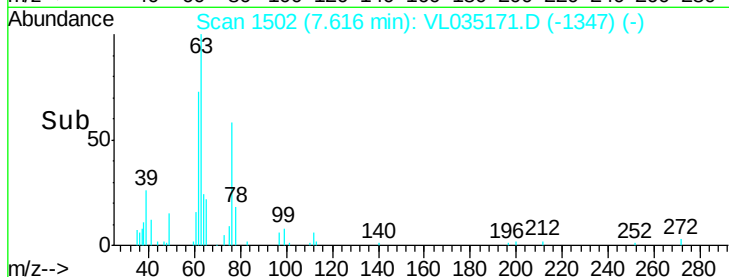
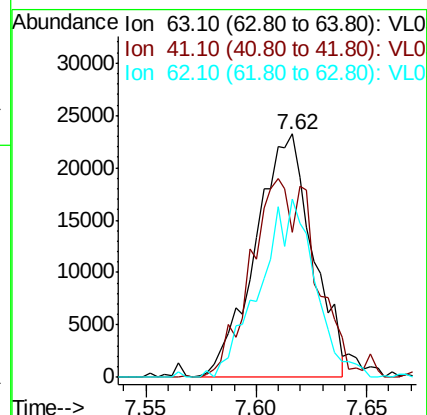
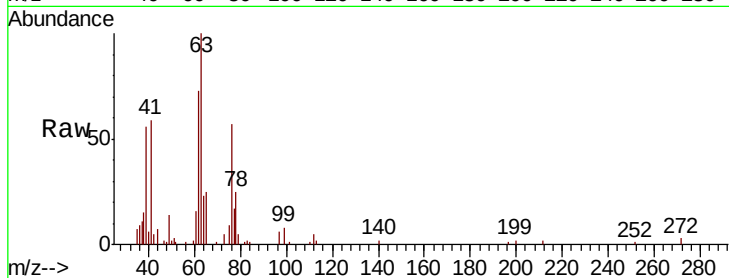
Tot Ion: 63 Resp: 41795

Ion Ratio Lower Upper

63 100

41 59.4 62.6 94.0#

62 73.3 55.0 82.6



#40

1,4-Dioxane

Concen: 0.165 ppbv

RT: 7.86 min Scan# 1579

Delta R.T. 0.03 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Tgt Ion: 88 Resp: 6033

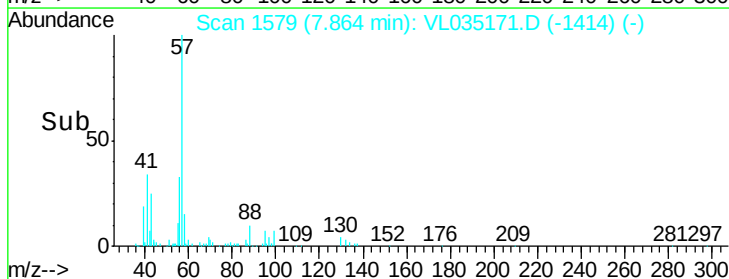
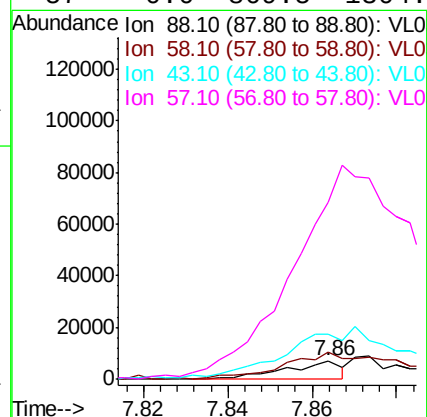
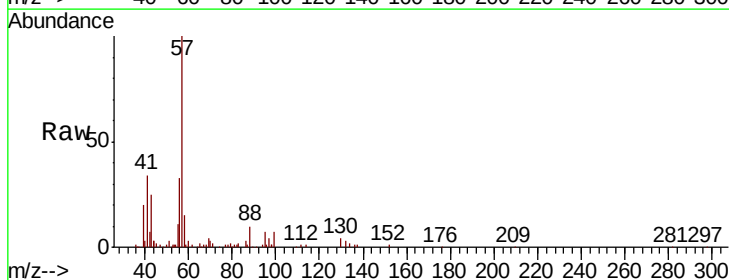
Ion Ratio Lower Upper

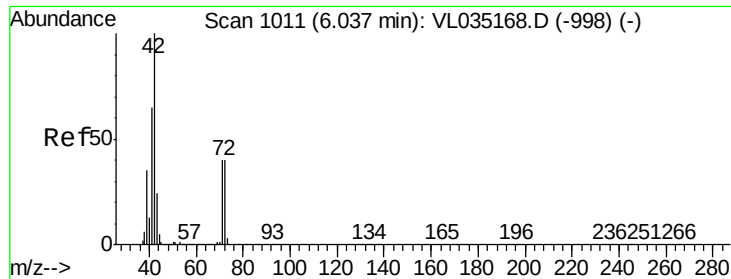
88 100

58 380.6 100.2 150.4#

43 0.0 199.8 299.8#

57 0.0 869.5 1304.3#





#41

Tetrahydrofuran

Concen: 0.234 ppbv

RT: 6.05 min Scan# 1016

Delta R.T. 0.02 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

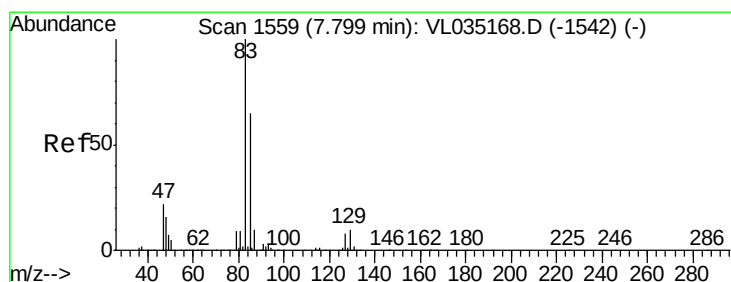
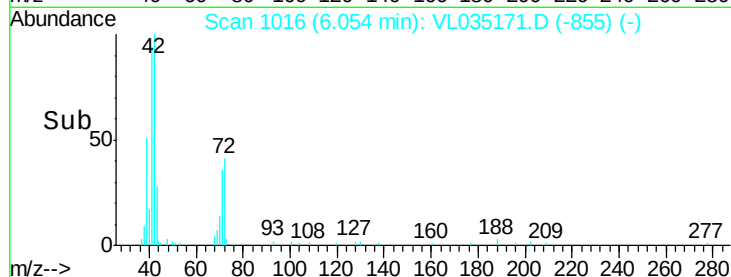
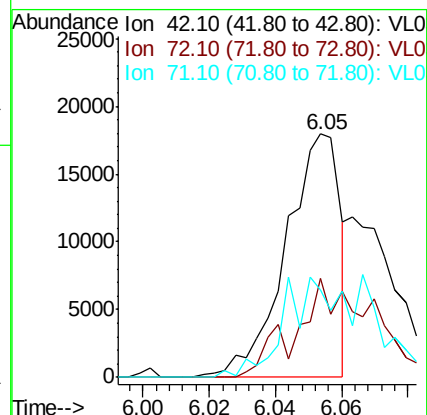
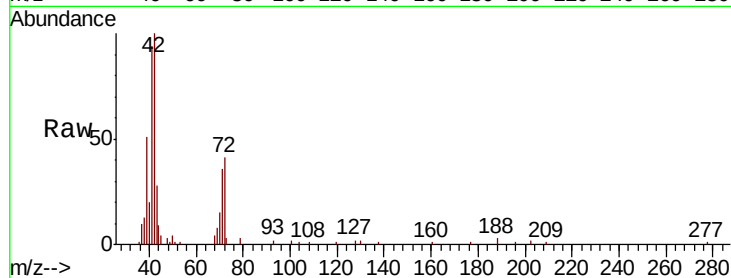
Tot Ion: 42 Resp: 20419

Ion Ratio Lower Upper

42 100

72 60.4 33.4 50.2#

71 0.0 31.9 47.9#



#42

Bromodichloromethane

Concen: 0.335 ppbv

RT: 7.79 min Scan# 1556

Delta R.T. -0.01 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

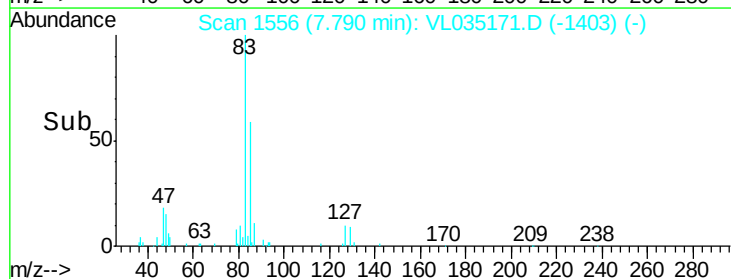
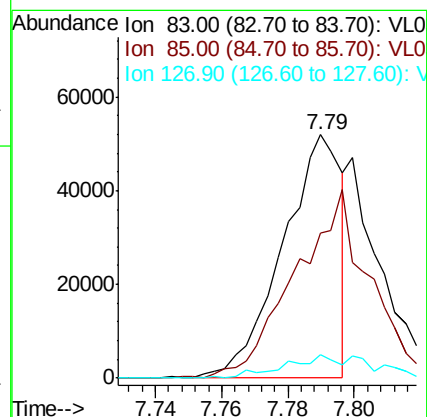
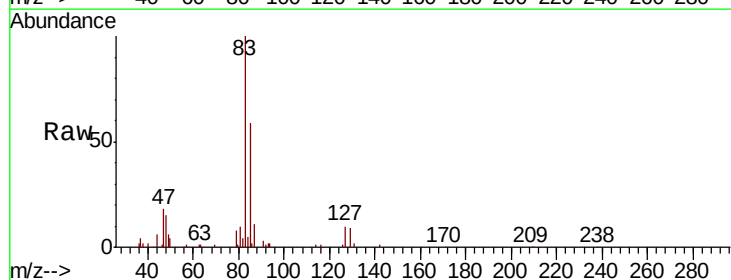
Tgt Ion: 83 Resp: 64243

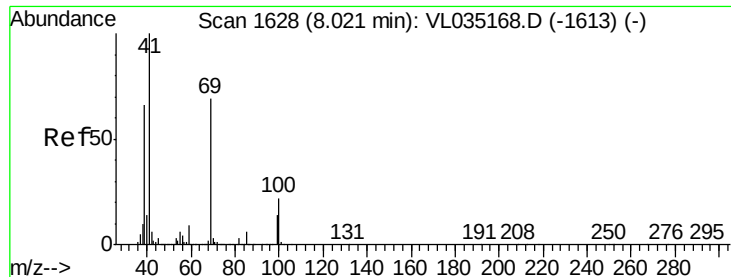
Ion Ratio Lower Upper

83 100

85 61.3 52.2 78.4

127 9.6 6.3 9.5#

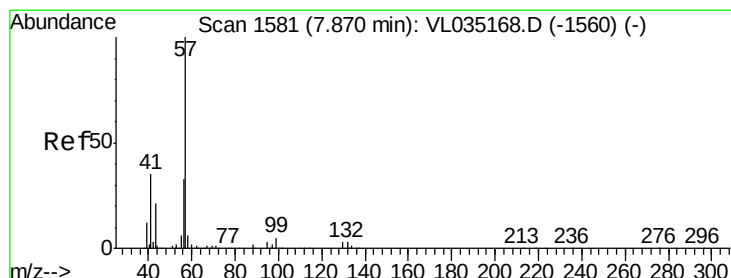
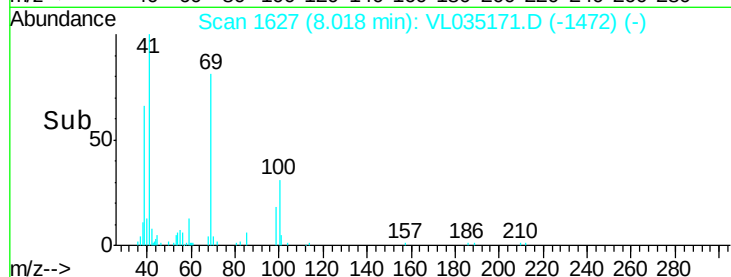
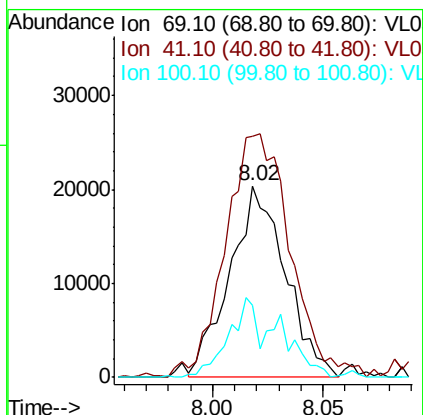
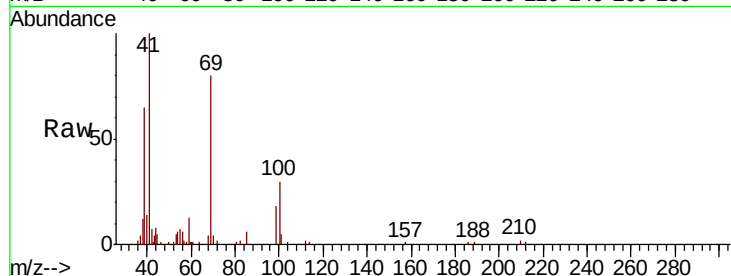




#43
Methyl Methacrylate
Concen: 0.363 ppbv
RT: 8.02 min Scan# 1627
Delta R.T. -0.00 min
Lab File: VL035171.D
Acq: 8 Jul 2020 4:33

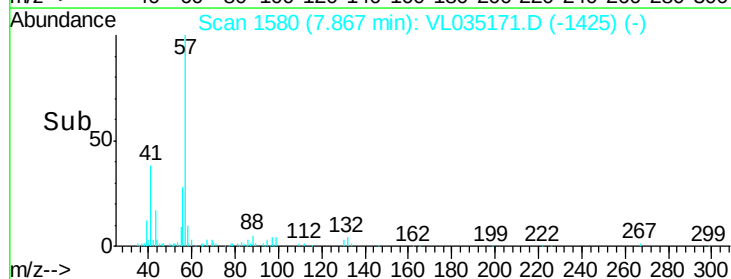
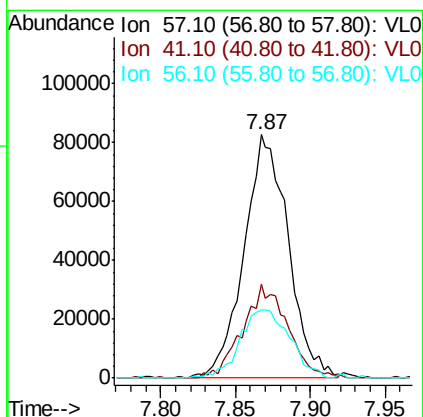
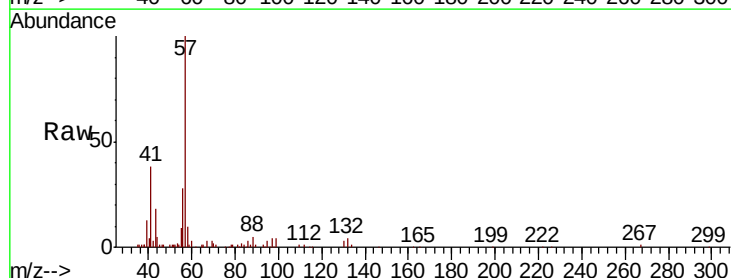
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

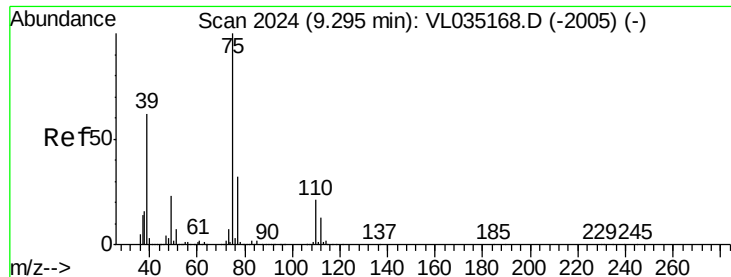
Tot Ion: 69 Resp: 35683
Ion Ratio Lower Upper
69 100
41 149.6 116.3 174.5
100 38.0 25.6 38.4



#44
2,2,4-Trimethylpentane
Concen: 0.417 ppbv
RT: 7.87 min Scan# 1580
Delta R.T. -0.00 min
Lab File: VL035171.D
Acq: 8 Jul 2020 4:33

Tgt Ion: 57 Resp: 169182
Ion Ratio Lower Upper
57 100
41 39.5 27.0 40.6
56 32.4 25.5 38.3

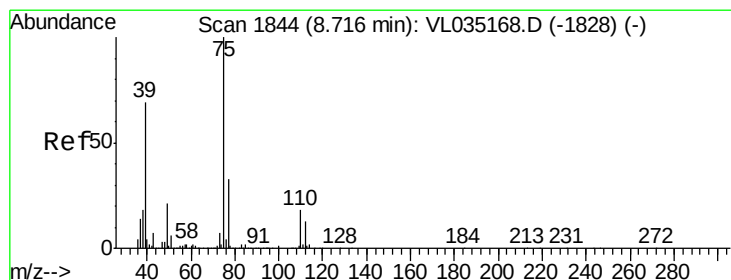
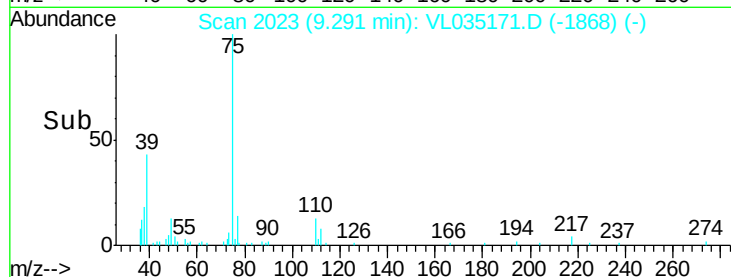
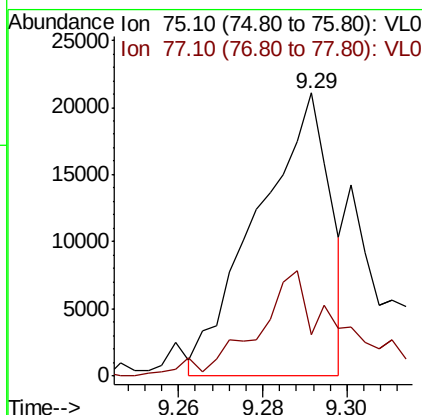
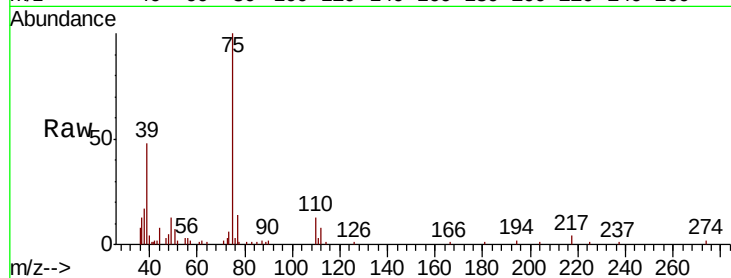




#45
t-1,3-Dichloropropene
Concen: 0.263 ppbv
RT: 9.29 min Scan# 2023
Delta R.T. -0.00 min
Lab File: VL035171.D
Acq: 8 Jul 2020 4:33

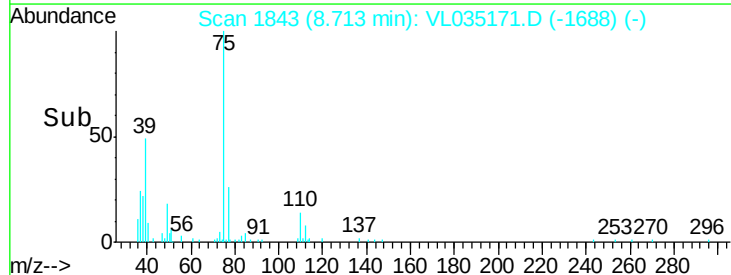
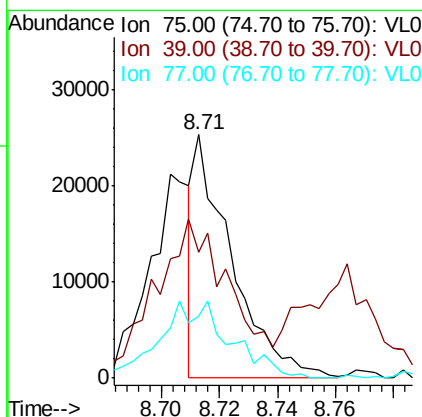
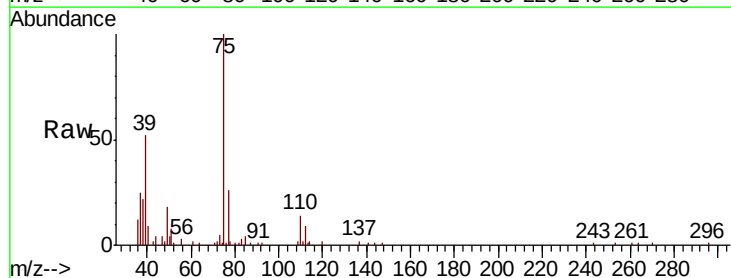
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

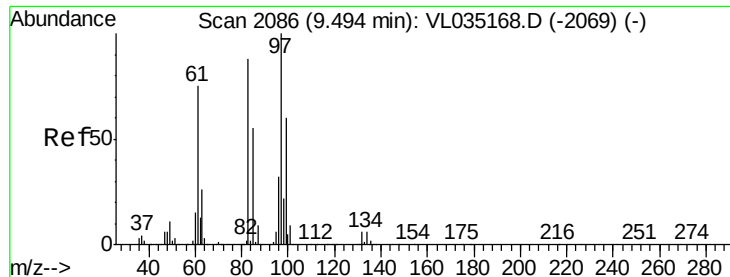
Tot Ion: 75 Resp: 25225
Ion Ratio Lower Upper
75 100
77 14.8 25.8 38.8#



#46
cis-1,3-Dichloropropene
Concen: 0.191 ppbv
RT: 8.71 min Scan# 1843
Delta R.T. -0.00 min
Lab File: VL035171.D
Acq: 8 Jul 2020 4:33

Tgt Ion: 75 Resp: 22644
Ion Ratio Lower Upper
75 100
39 13.3 55.2 82.8#
77 25.8 26.0 39.0#





#47

1,1,2-Trichloroethane

Concen: 0.287 ppbv

RT: 9.48 min Scan# 2083

Delta R.T. -0.01 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 97 Resp: 28541

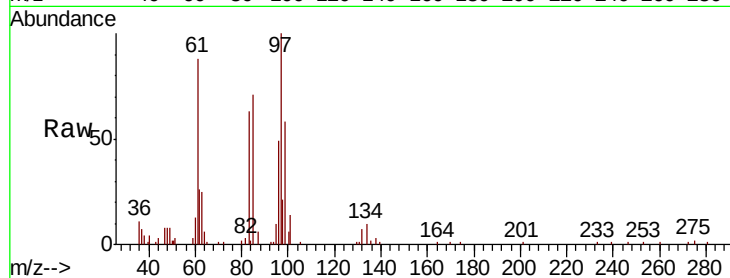
Ion Ratio Lower Upper

97 100

83 58.1 70.3 105.5#

85 72.0 44.3 66.5#

99 58.2 47.8 71.6

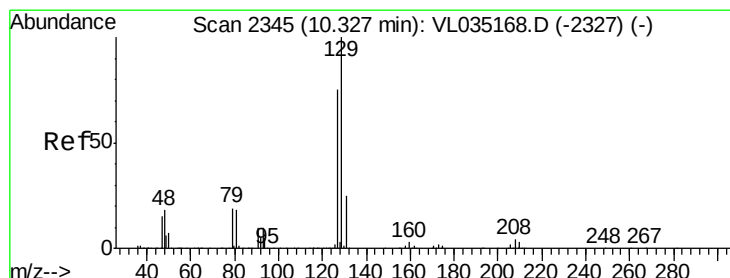
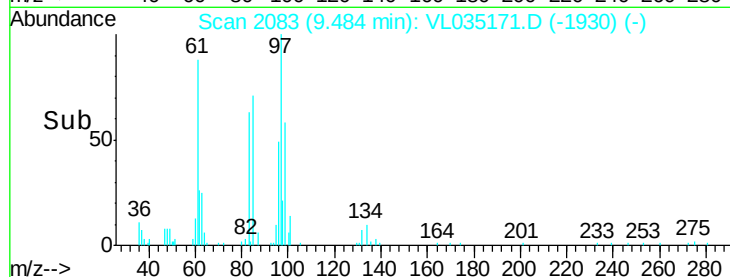
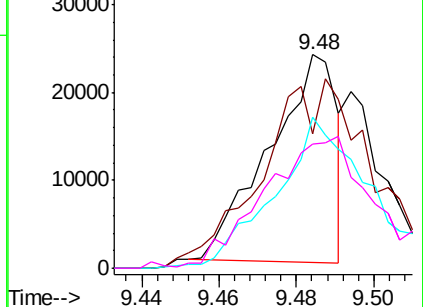


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 0.457 ppbv

RT: 10.32 min Scan# 2343

Delta R.T. -0.01 min

Lab File: VL035171.D

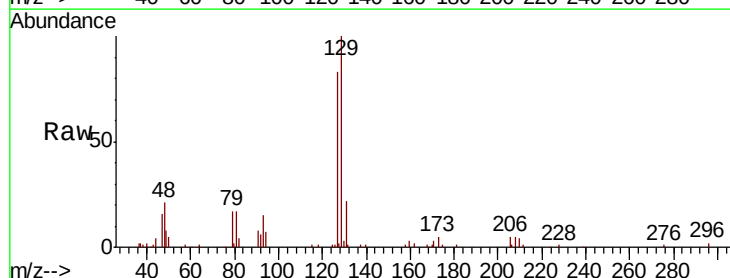
Acq: 8 Jul 2020 4:33

Tgt Ion: 129 Resp: 68324

Ion Ratio Lower Upper

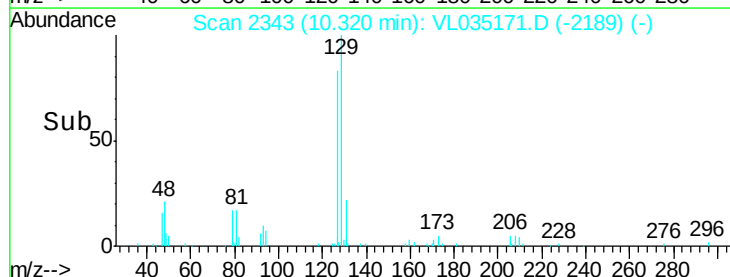
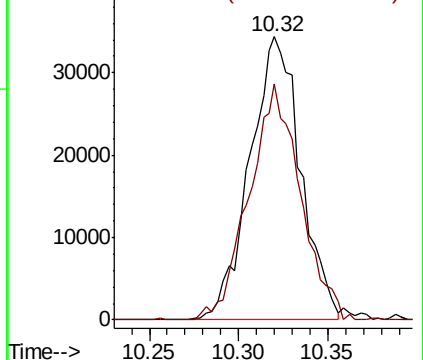
129 100

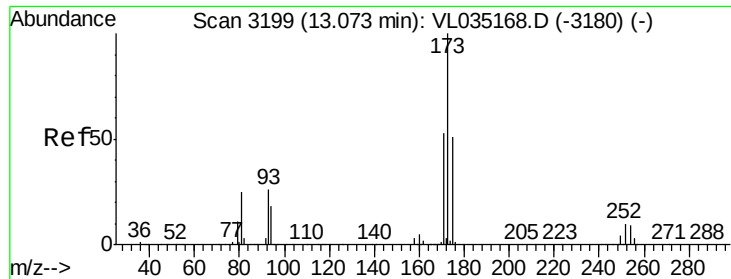
127 83.9 38.8 116.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.214 ppbv

RT: 13.06 min Scan# 3195

Delta R.T. -0.01 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

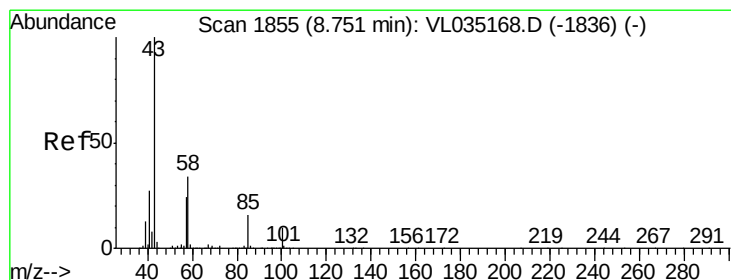
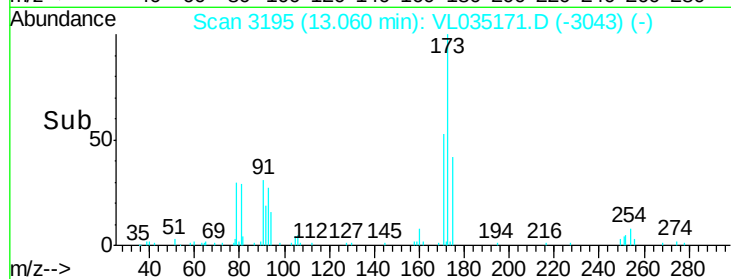
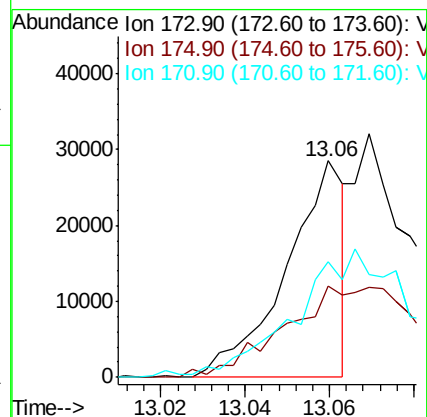
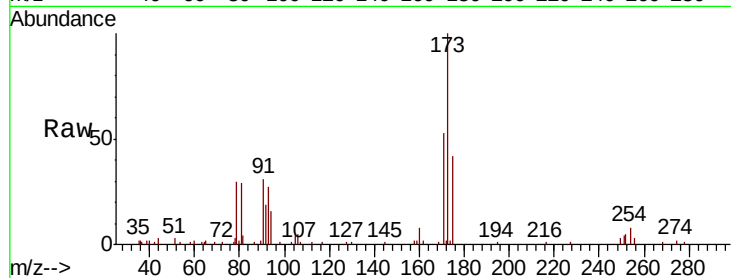
Tot Ion:173 Resp: 27306

Ion Ratio Lower Upper

173 100

175 100.8 39.7 59.5#

171 0.0 41.6 62.4#



#50

4-Methyl-2-Pentanone

Concen: 0.385 ppbv

RT: 8.76 min Scan# 1857

Delta R.T. 0.01 min

Lab File: VL035171.D

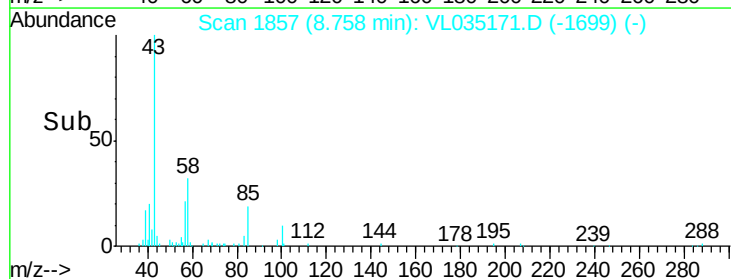
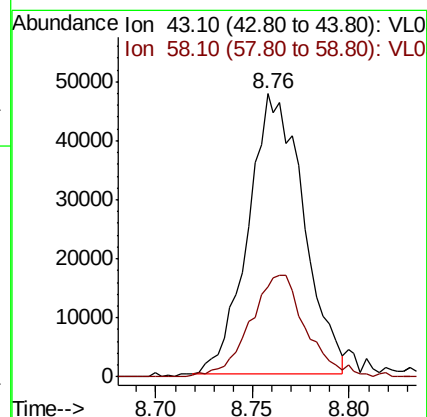
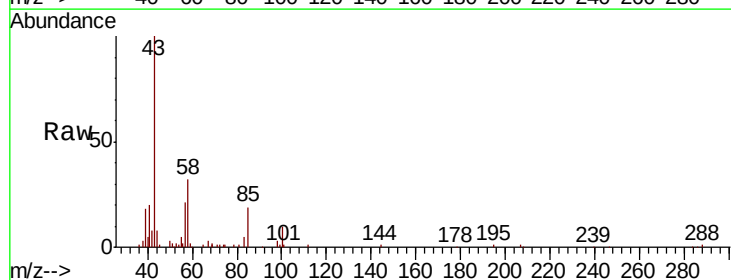
Acq: 8 Jul 2020 4:33

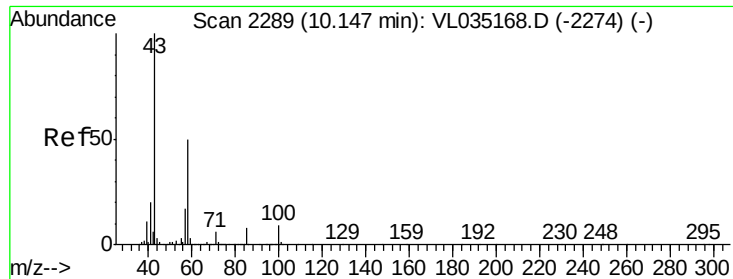
Tgt Ion: 43 Resp: 94643

Ion Ratio Lower Upper

43 100

58 36.8 29.4 44.2

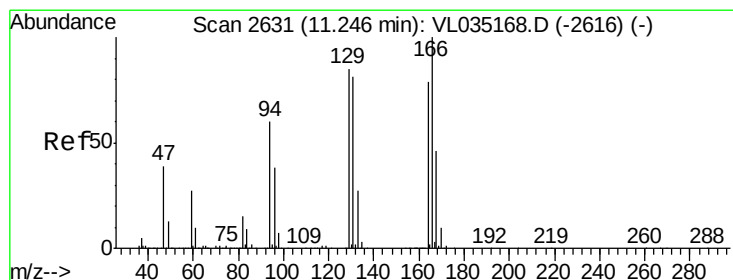
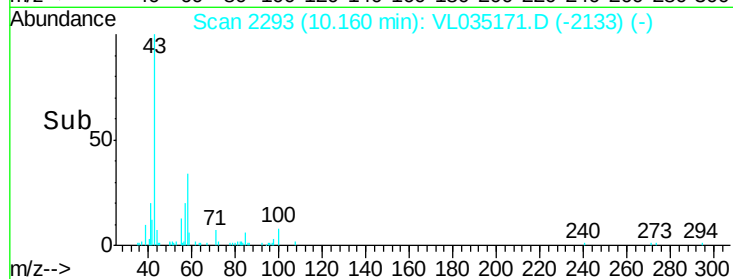
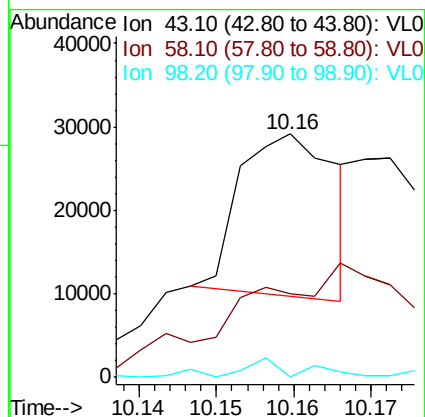
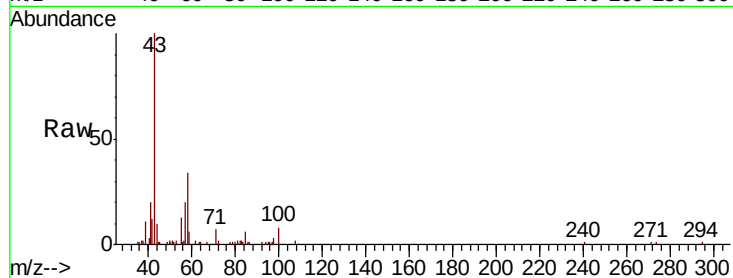




#51
2-Hexanone
Concen: 0.087 ppbv
RT: 10.16 min Scan# 2293
Delta R.T. 0.01 min
Lab File: VL035171.D
Acq: 8 Jul 2020 4:33

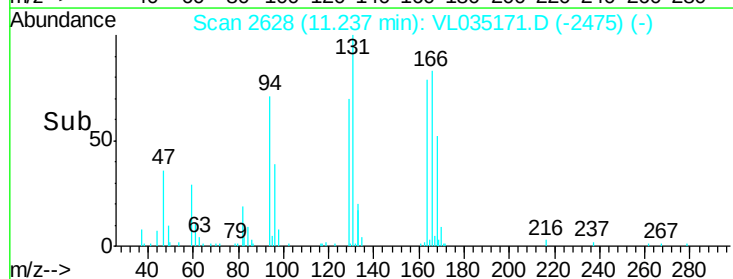
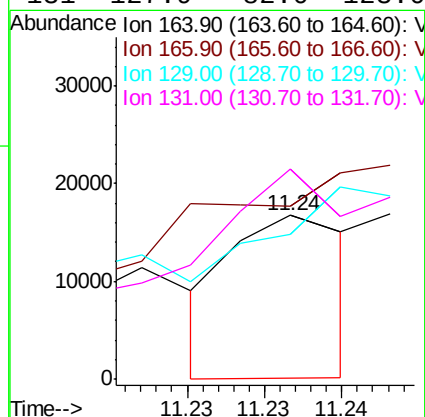
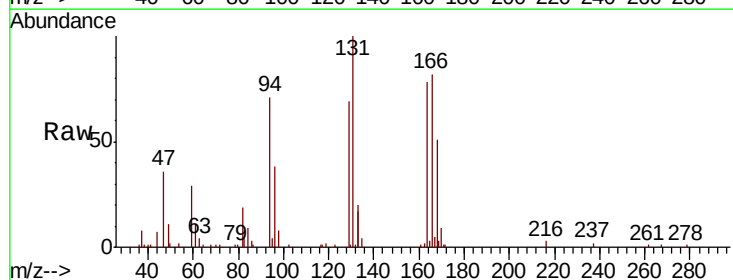
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

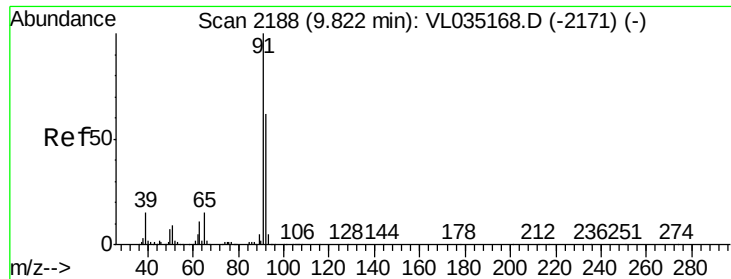
Tot Ion: 43 Resp: 16577
Ion Ratio Lower Upper
43 100
58 169.0 39.4 59.0#
98 5.0 0.3 0.5#



#52
Tetrachloroethene
Concen: 0.107 ppbv
RT: 11.24 min Scan# 2628
Delta R.T. -0.01 min
Lab File: VL035171.D
Acq: 8 Jul 2020 4:33

Tgt Ion: 164 Resp: 8824
Ion Ratio Lower Upper
164 100
166 0.0 100.7 151.1#
129 56.1 85.8 128.6#
131 127.9 82.0 123.0#





#53

Toluene

Concen: 0.210 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.00 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

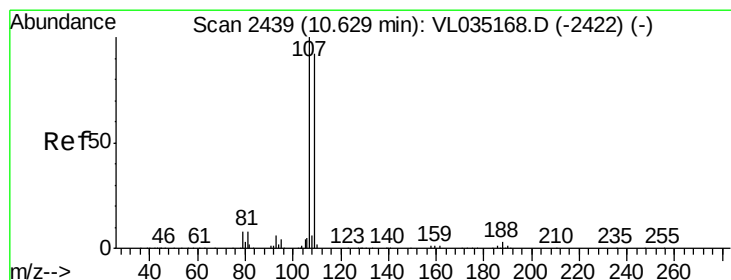
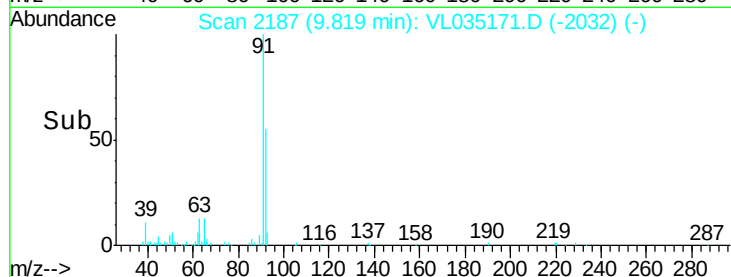
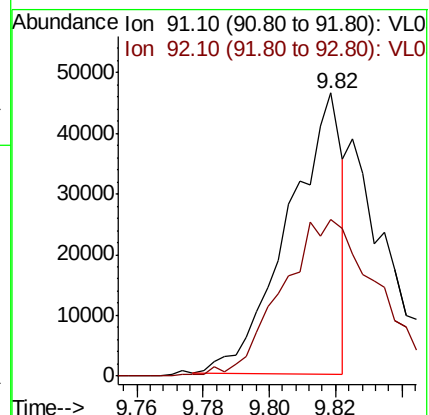
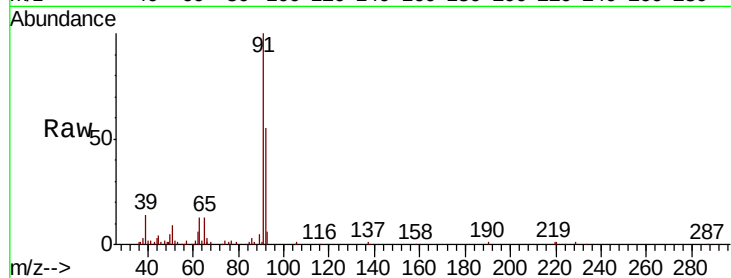
VSTDIC0.5

Tot Ion: 91 Resp: 52187

Ion Ratio Lower Upper

91 100

92 100.8 48.4 72.6#



#54

1,2-Dibromoethane

Concen: 0.136 ppbv

RT: 10.62 min Scan# 2435

Delta R.T. -0.01 min

Lab File: VL035171.D

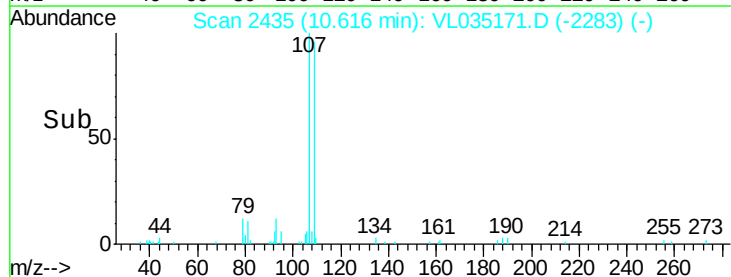
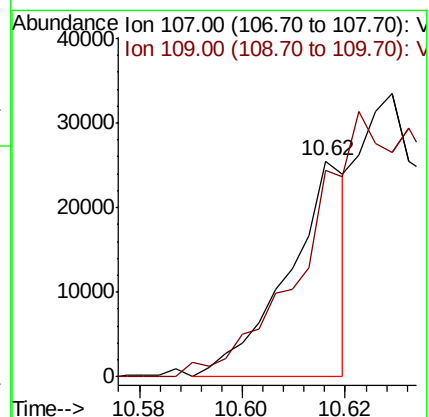
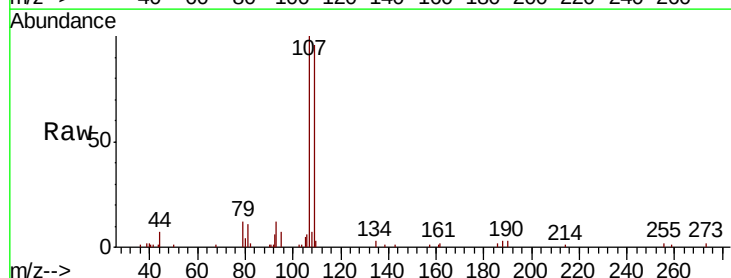
Acq: 8 Jul 2020 4:33

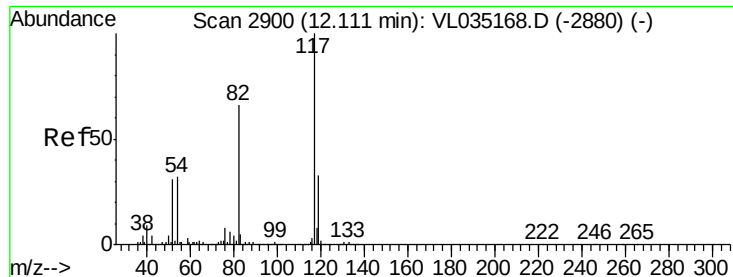
Tgt Ion: 107 Resp: 20005

Ion Ratio Lower Upper

107 100

109 89.6 74.0 111.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

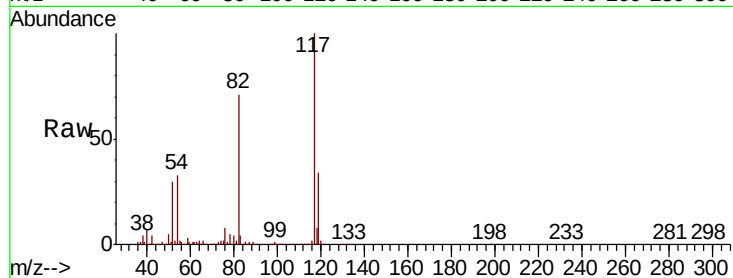
Tot Ion:117 Resp: 2715220

Ion Ratio Lower Upper

117 100

82 69.2 52.3 78.5

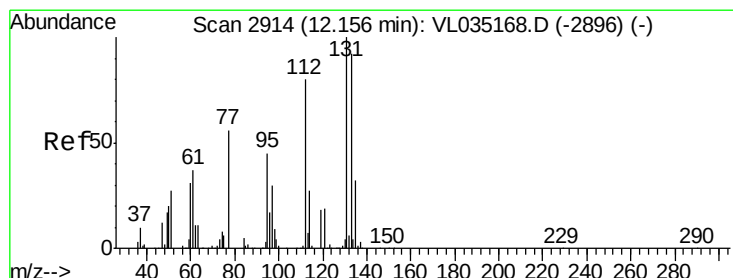
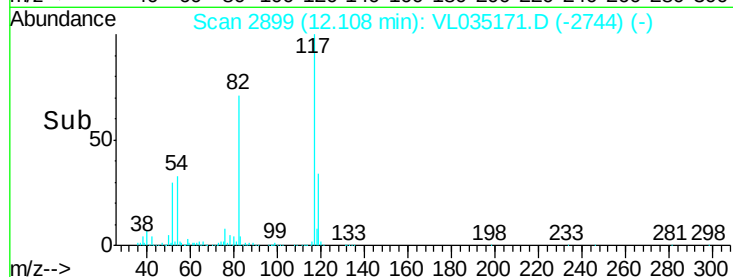
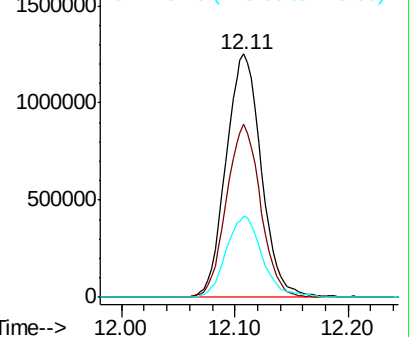
119 34.4 24.9 37.3



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.120 ppbv

RT: 12.16 min Scan# 2916

Delta R.T. 0.01 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

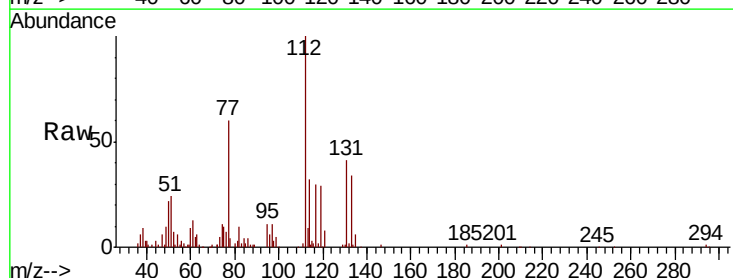
Tgt Ion:131 Resp: 13460

Ion Ratio Lower Upper

131 100

133 0.0 75.4 113.2#

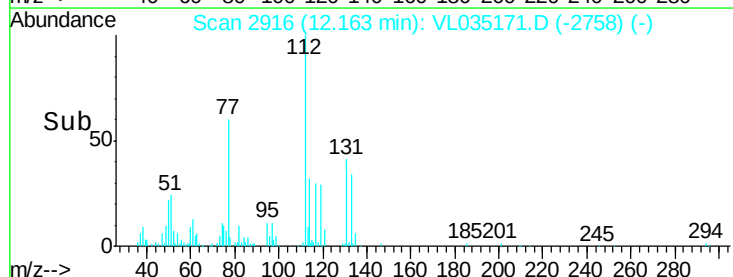
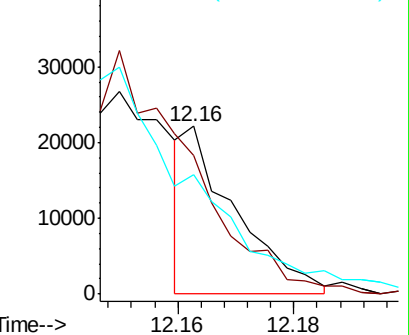
119 0.0 42.4 63.6#

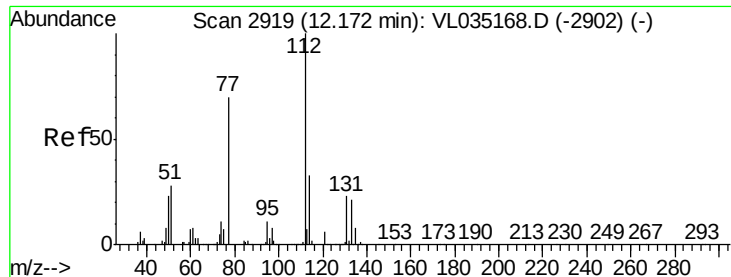


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 0.564 ppbv

RT: 12.16 min Scan# 2916

Delta R.T. -0.01 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

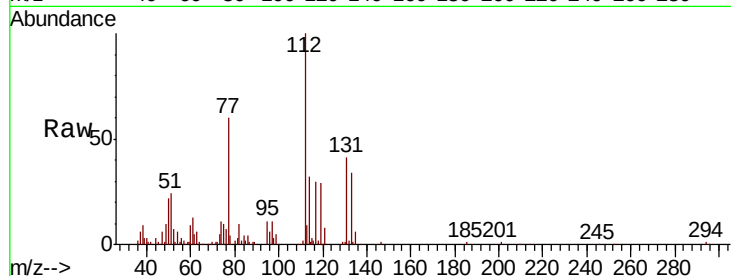
Tot Ion: 112 Resp: 113125

Ion Ratio Lower Upper

112 100

77 55.4 57.0 85.4#

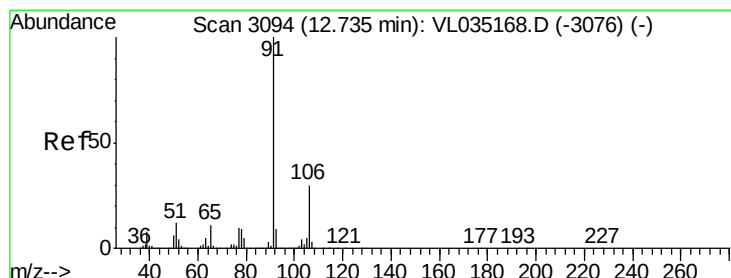
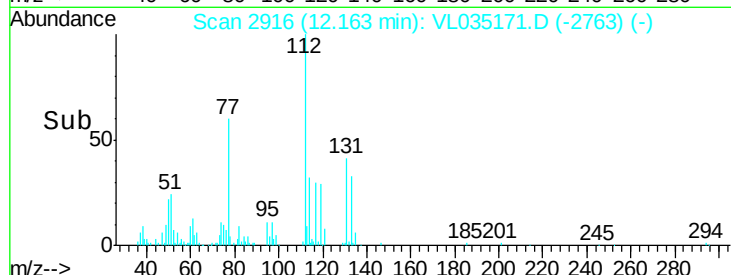
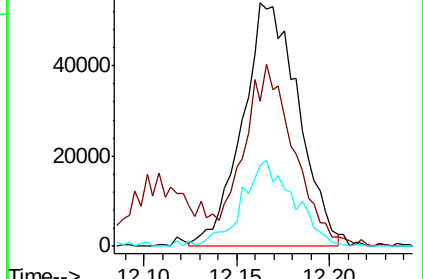
114 33.2 30.2 37.0



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.212 ppbv

RT: 12.74 min Scan# 3095

Delta R.T. 0.00 min

Lab File: VL035171.D

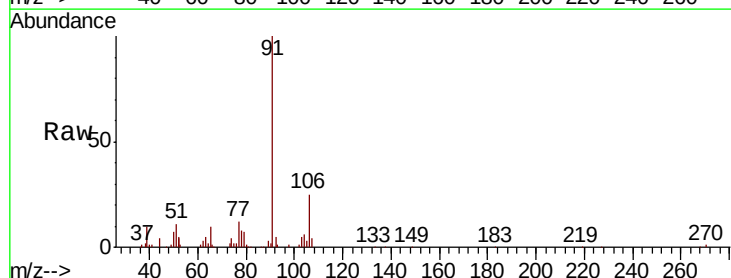
Acq: 8 Jul 2020 4:33

Tgt Ion: 91 Resp: 65062

Ion Ratio Lower Upper

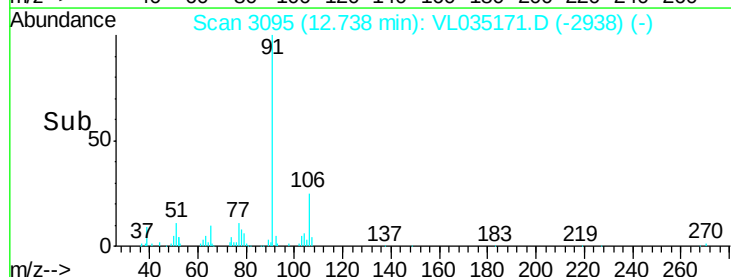
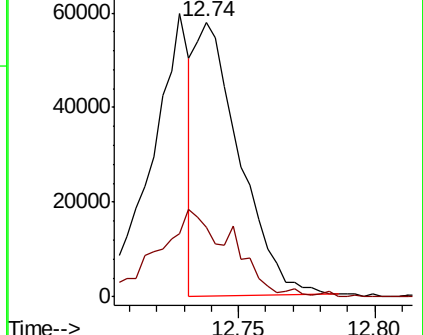
91 100

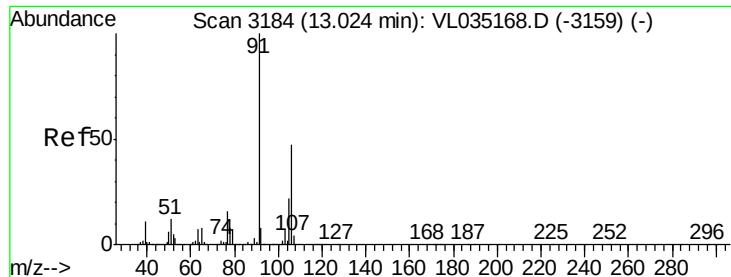
106 25.4 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.454 ppbv

RT: 13.02 min Scan# 3182

Delta R.T. -0.01 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

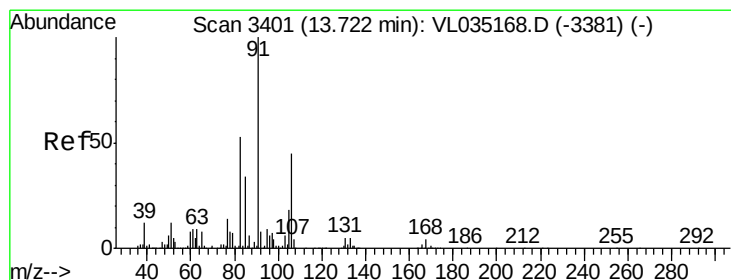
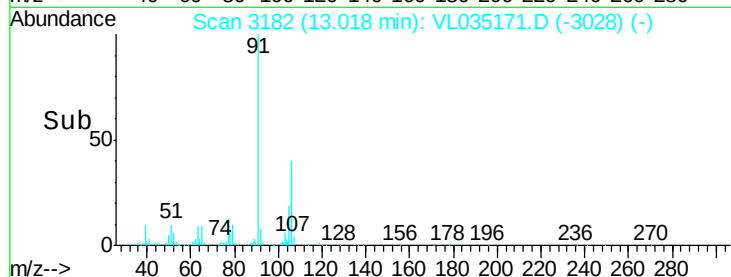
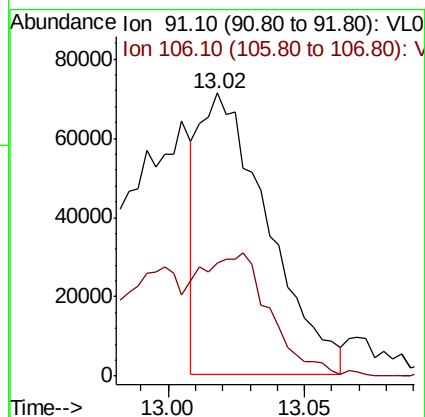
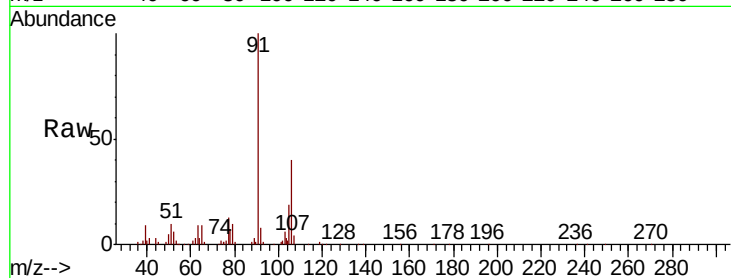
VSTDIC0.5

Tot Ion: 91 Resp: 123438

Ion Ratio Lower Upper

91 100

106 87.5 36.2 54.2#



#60

o-Xylene

Concen: 0.260 ppbv

RT: 13.71 min Scan# 3398

Delta R.T. -0.01 min

Lab File: VL035171.D

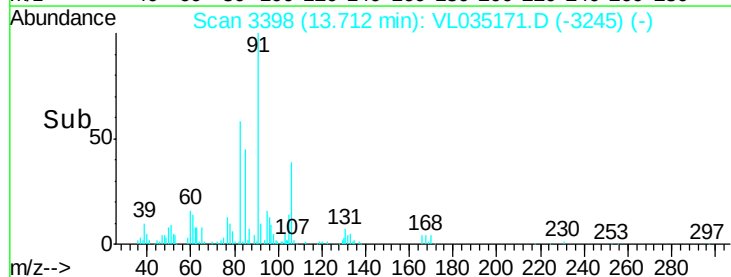
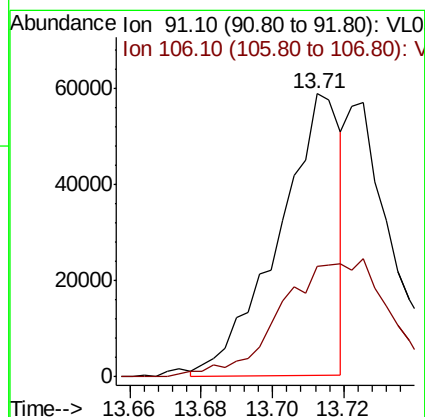
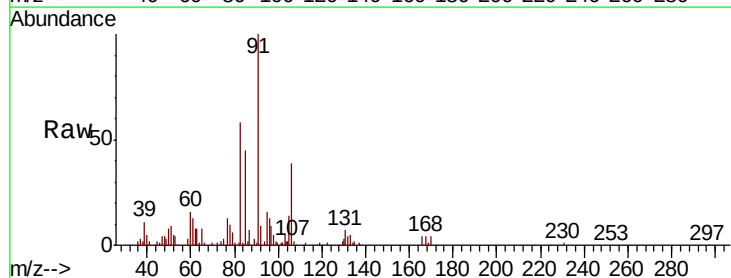
Acq: 8 Jul 2020 4:33

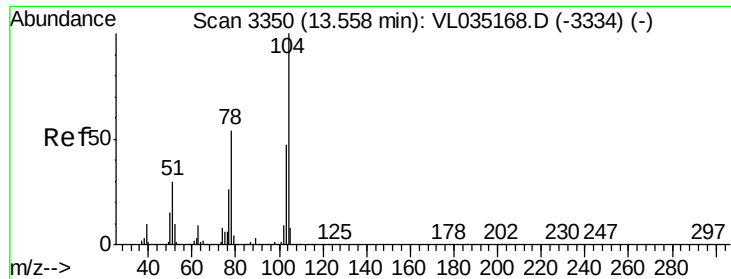
Tgt Ion: 91 Resp: 70485

Ion Ratio Lower Upper

91 100

106 0.0 22.1 66.3#





#61

Stvrene

Concen: 0.251 ppbv

RT: 13.56 min Scan# 3350

Delta R.T. 0.00 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

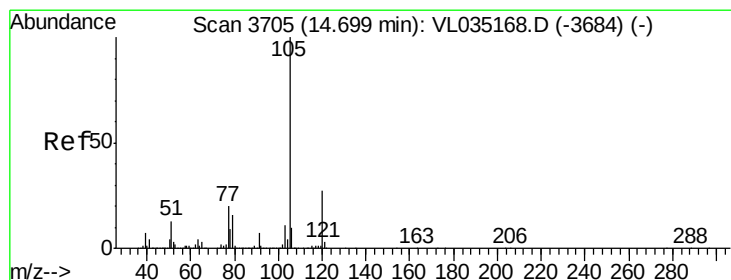
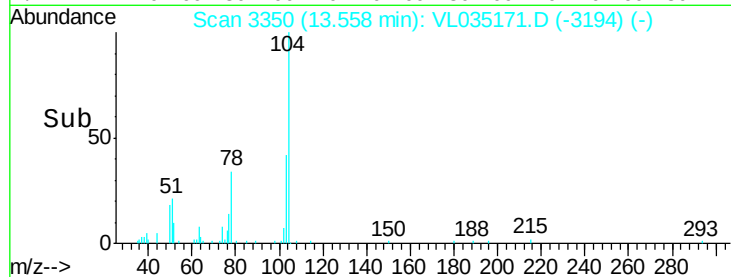
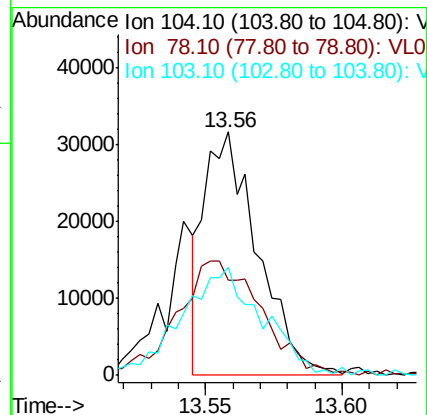
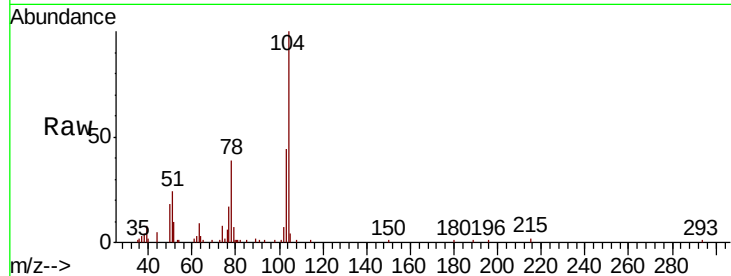
Tot Ion:104 Resp: 42861

Ion Ratio Lower Upper

104 100

78 75.6 43.4 65.0#

103 68.6 37.4 56.0#



#62

Isopropylbenzene

Concen: 0.323 ppbv

RT: 14.70 min Scan# 3704

Delta R.T. -0.00 min

Lab File: VL035171.D

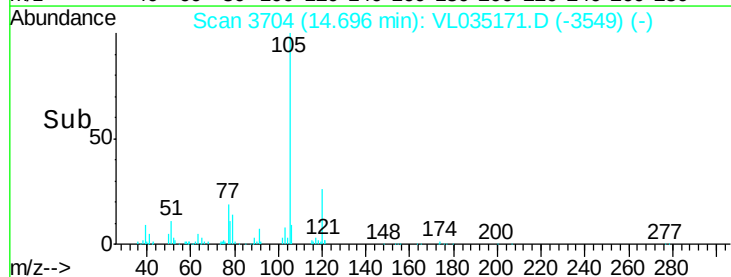
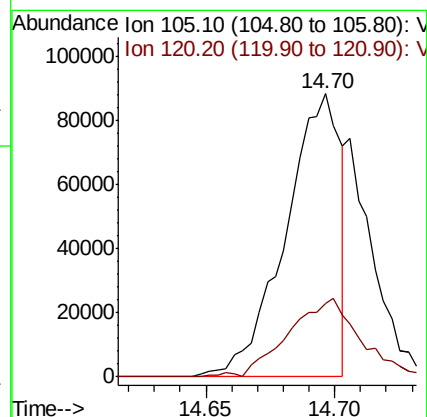
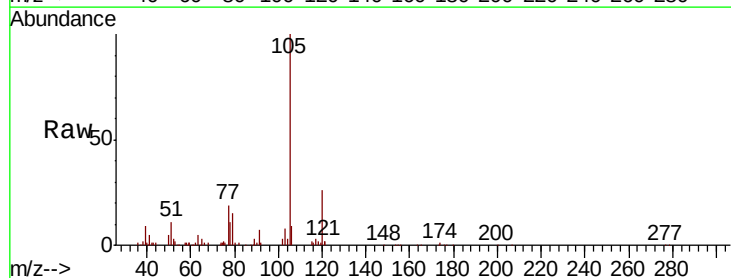
Acq: 8 Jul 2020 4:33

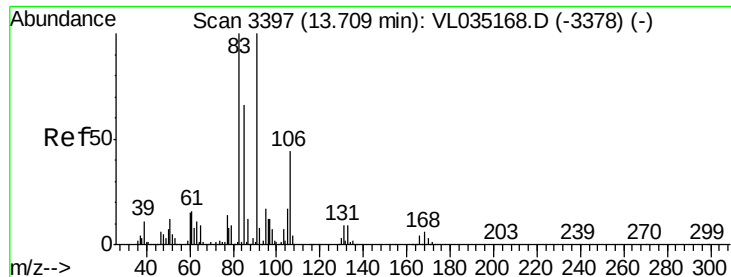
Tgt Ion:105 Resp: 130701

Ion Ratio Lower Upper

105 100

120 36.4 20.7 31.1#

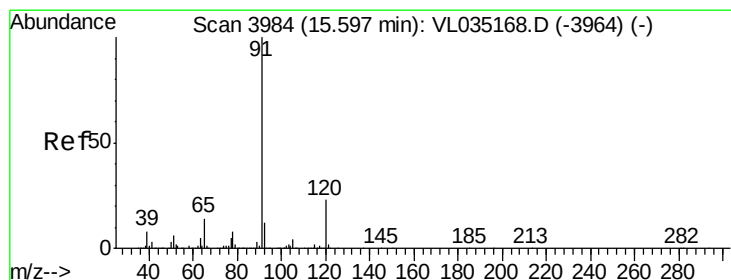
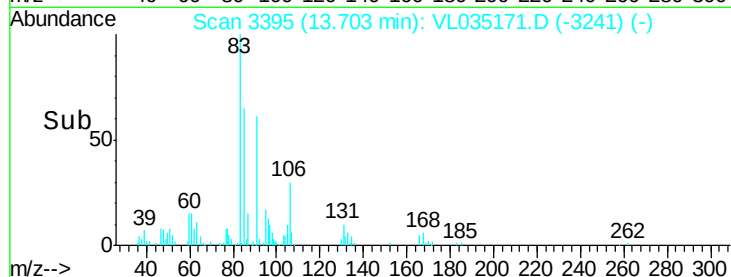
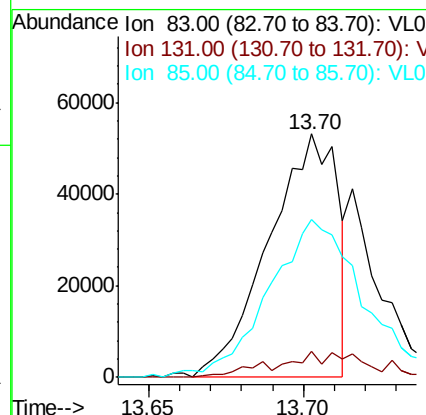
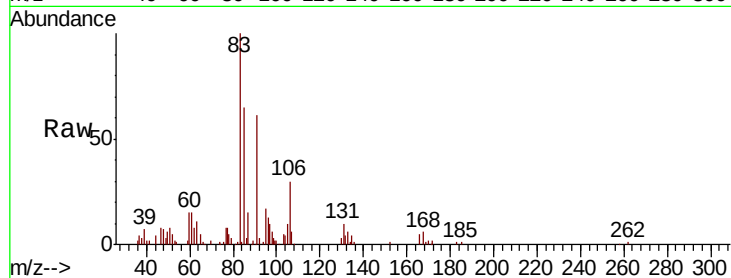




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.374 ppbv
 RT: 13.70 min Scan# 3395
 Delta R.T. -0.01 min
 Lab File: VL035171.D
 Acq: 8 Jul 2020 4:33

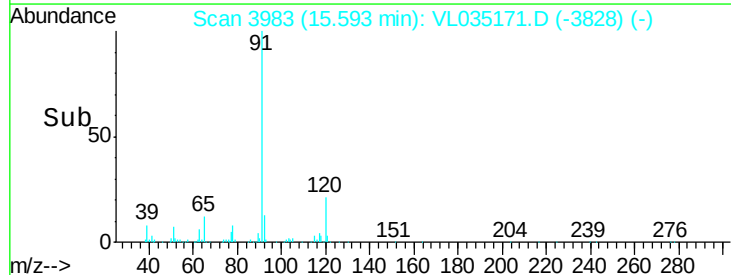
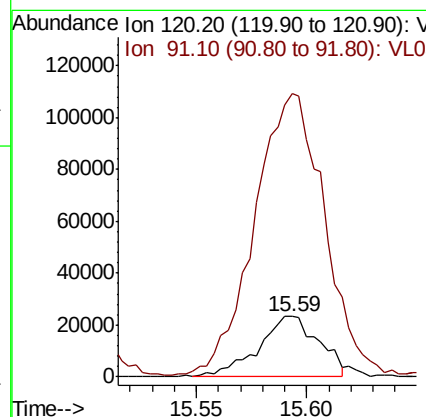
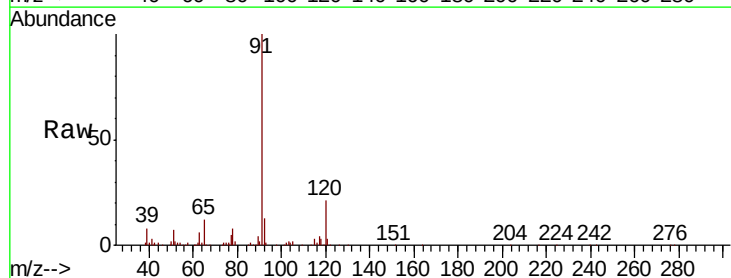
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

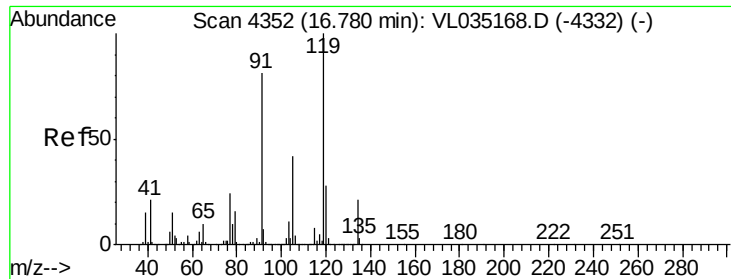
Tot Ion: 83 Resp: 82106
 Ion Ratio Lower Upper
 83 100
 131 14.3 4.7 14.0#
 85 90.6 33.0 99.0



#64
 n-propylbenzene
 Concen: 0.428 ppbv
 RT: 15.59 min Scan# 3983
 Delta R.T. -0.00 min
 Lab File: VL035171.D
 Acq: 8 Jul 2020 4:33

Tgt Ion:120 Resp: 44255
 Ion Ratio Lower Upper
 120 100
 91 552.5 372.4 558.6

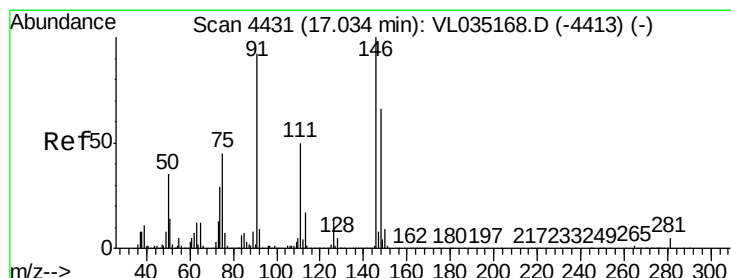
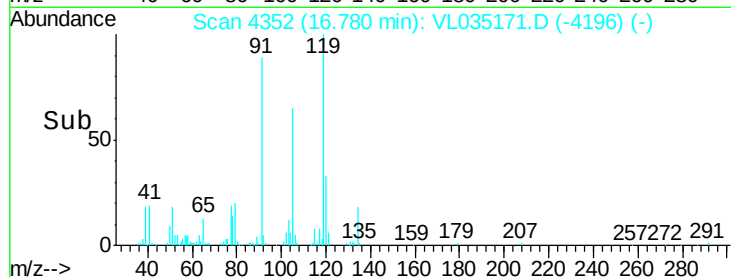
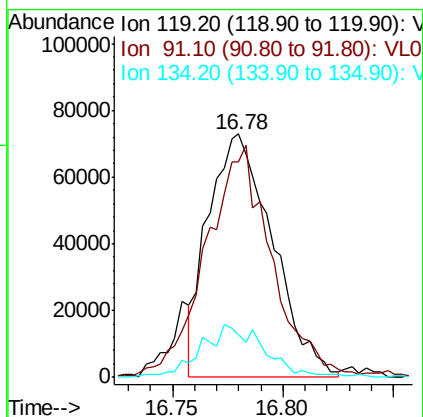
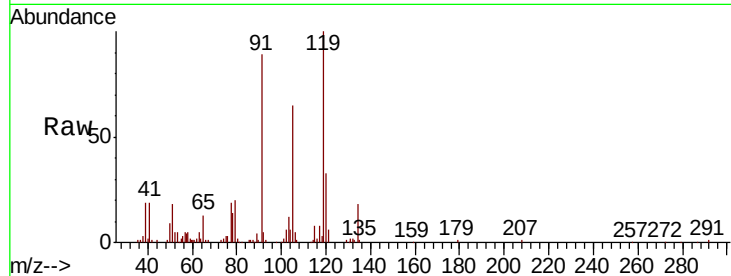




#65
 tert-Butylbenzene
 Concen: 0.422 ppbv
 RT: 16.78 min Scan# 4352
 Delta R.T. 0.00 min
 Lab File: VL035171.D
 Acq: 8 Jul 2020 4:33

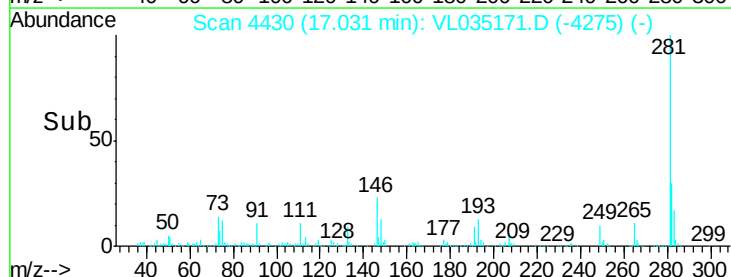
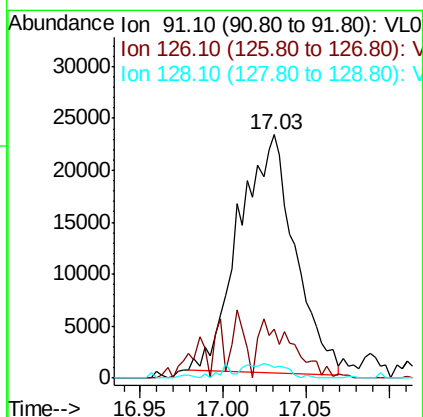
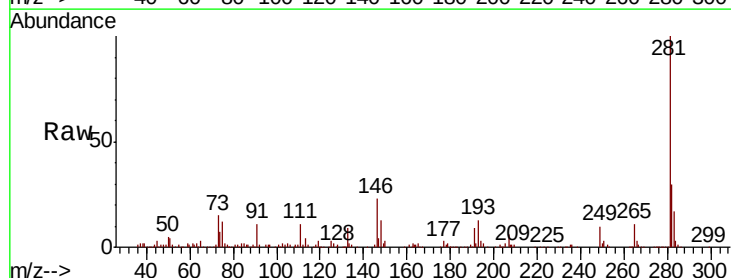
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

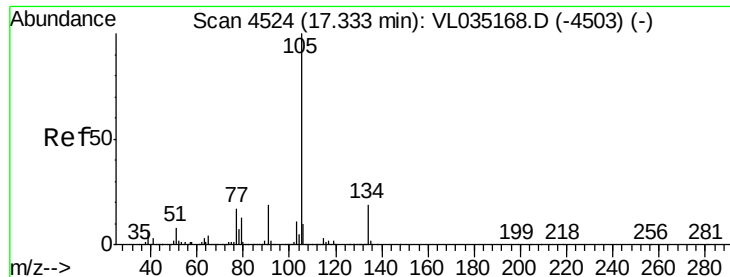
Tot Ion: 119 Resp: 147371
 Ion Ratio Lower Upper
 119 100
 91 99.3 67.5 101.3
 134 21.6 16.0 24.0



#66
 Benzyl Chloride
 Concen: 0.488 ppbv
 RT: 17.03 min Scan# 4430
 Delta R.T. -0.00 min
 Lab File: VL035171.D
 Acq: 8 Jul 2020 4:33

Tgt Ion: 91 Resp: 53780
 Ion Ratio Lower Upper
 91 100
 126 25.2 13.9 20.9#
 128 6.2 4.2 6.4





#67

sec-Butylbenzene

Concen: 0.481 ppbv

RT: 17.33 min Scan# 4524

Delta R.T. 0.00 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

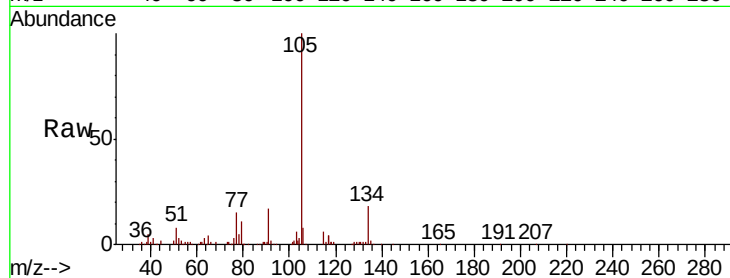
VSTDIC0.5

Tot Ion:105 Resp: 241129

Ion Ratio Lower Upper

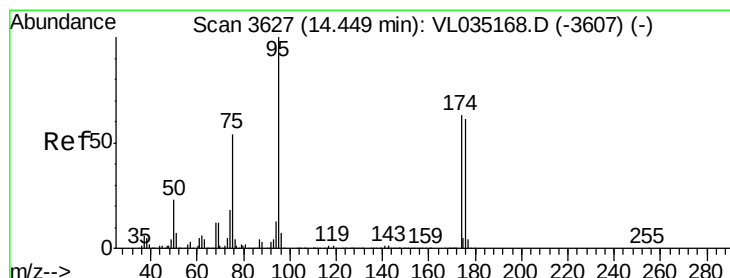
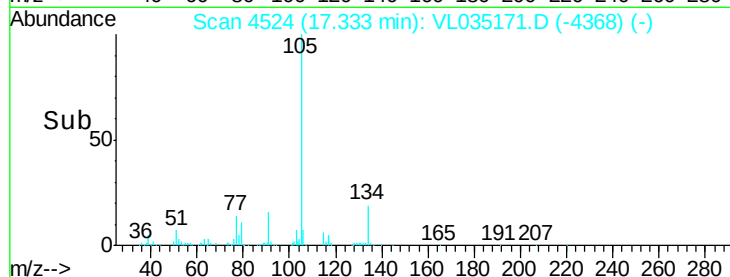
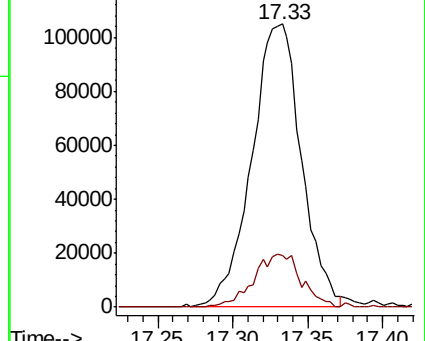
105 100

134 18.5 14.6 21.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.063 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. -0.01 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

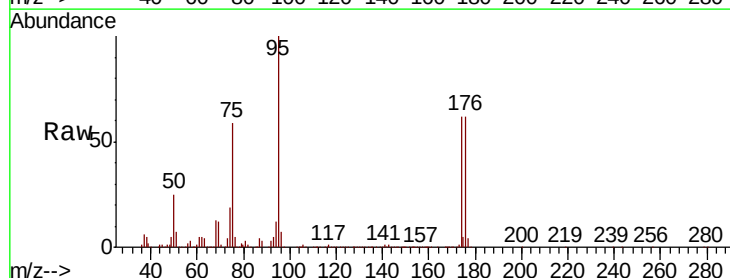
Tgt Ion: 95 Resp: 2270637

Ion Ratio Lower Upper

95 100

174 64.6 52.2 78.2

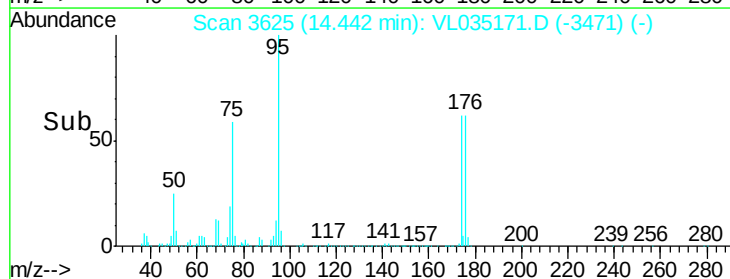
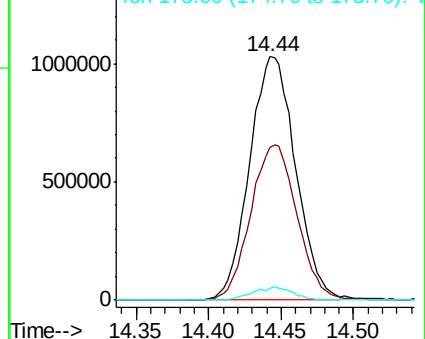
175 4.9 4.0 6.0

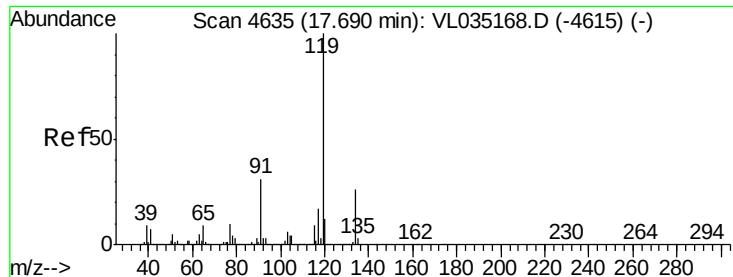


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

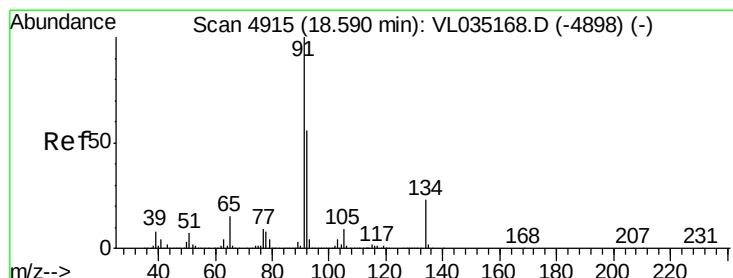
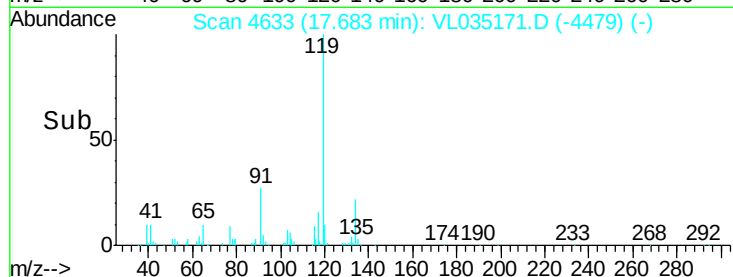
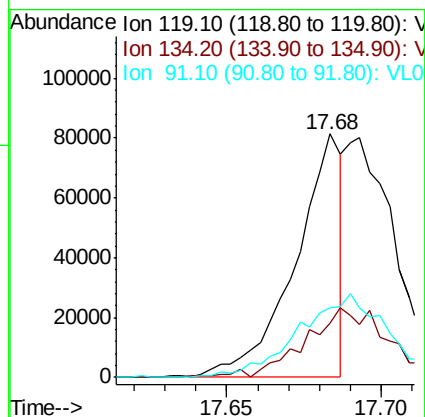
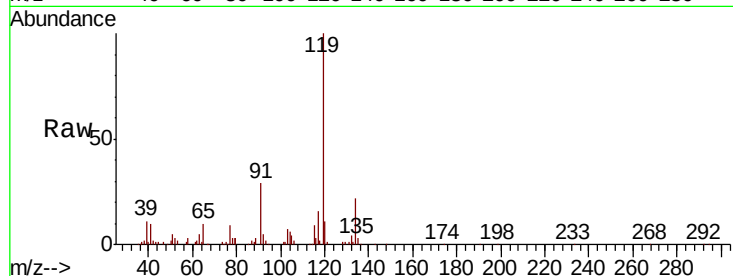




#69
 p-Isopropyltoluene
 Concen: 0.210 ppbv
 RT: 17.68 min Scan# 4633
 Delta R.T. -0.01 min
 Lab File: VL035171.D
 Acq: 8 Jul 2020 4:33

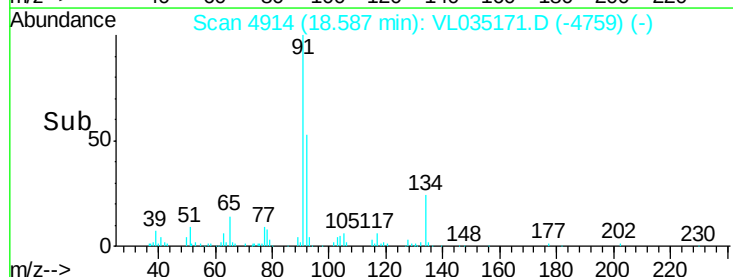
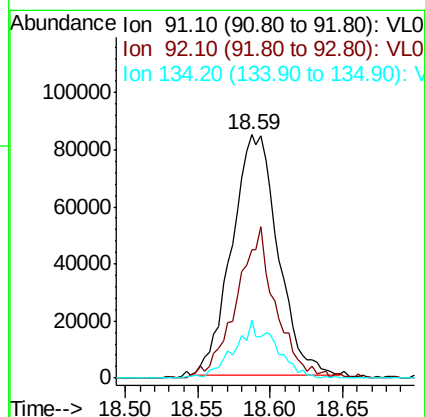
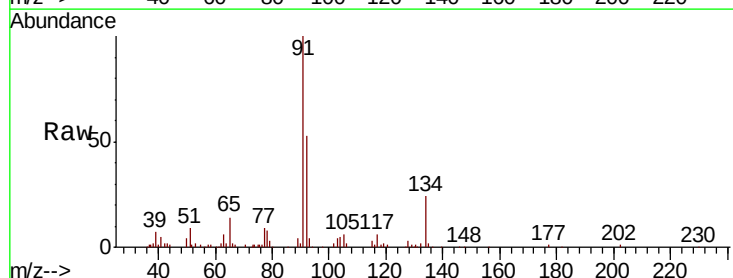
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

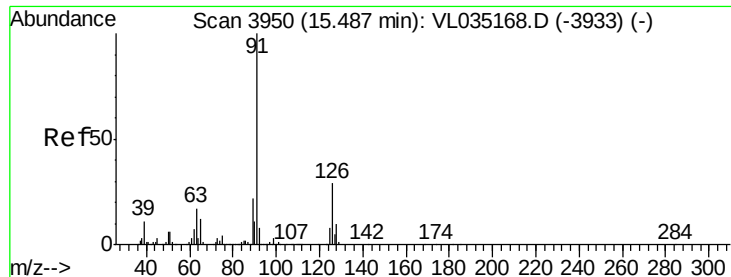
Tot Ion:119 Resp: 84100
 Ion Ratio Lower Upper
 119 100
 134 0.0 20.8 31.2#
 91 0.0 24.9 37.3#



#70
 n-Butylbenzene
 Concen: 0.431 ppbv
 RT: 18.59 min Scan# 4914
 Delta R.T. -0.00 min
 Lab File: VL035171.D
 Acq: 8 Jul 2020 4:33

Tgt Ion: 91 Resp: 185889
 Ion Ratio Lower Upper
 91 100
 92 54.0 44.0 66.0
 134 21.2 18.0 27.0





#71

2-Chlorotoluene

Concen: 0.440 ppbv

RT: 15.48 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

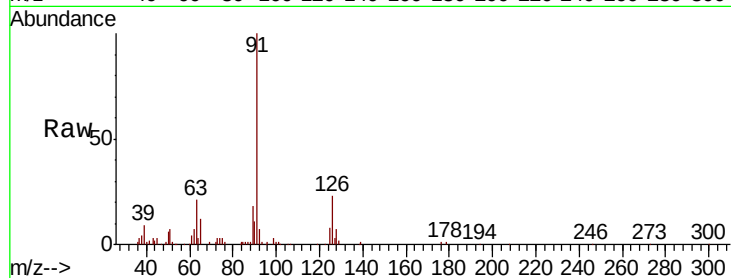
VSTDIC0.5

Tot Ion: 91 Resp: 134614

Ion Ratio Lower Upper

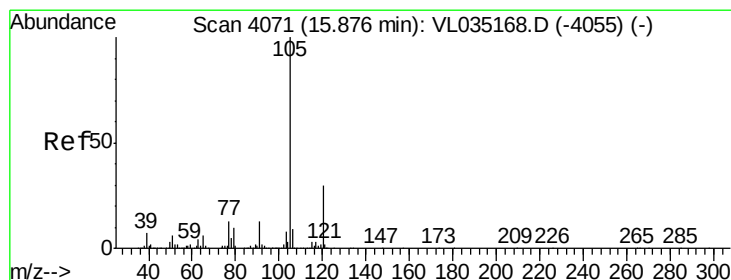
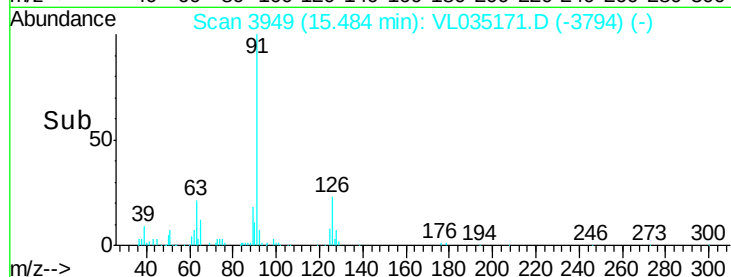
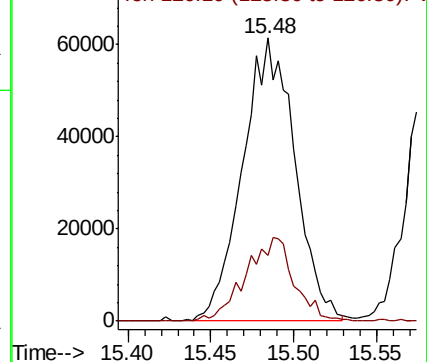
91 100

126 27.6 12.0 48.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.294 ppbv

RT: 15.87 min Scan# 4070

Delta R.T. -0.00 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Tgt Ion: 105 Resp: 88968

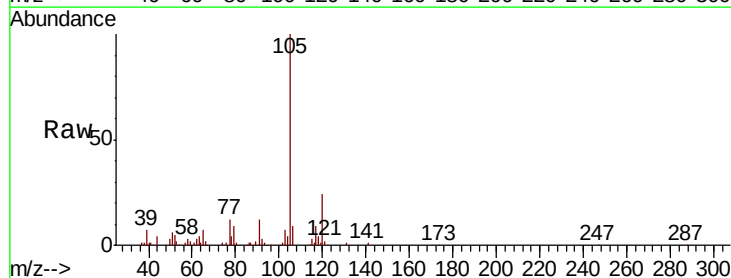
Ion Ratio Lower Upper

105 100

120 41.8 23.2 34.8#

91 23.9 10.9 16.3#

77 22.2 11.8 17.6#

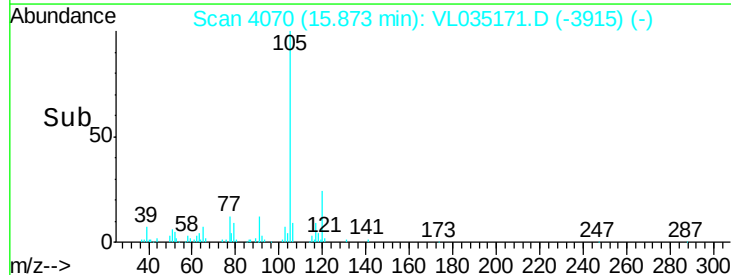
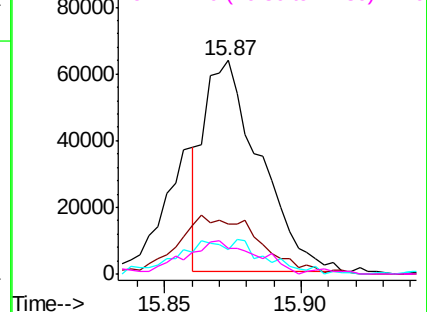


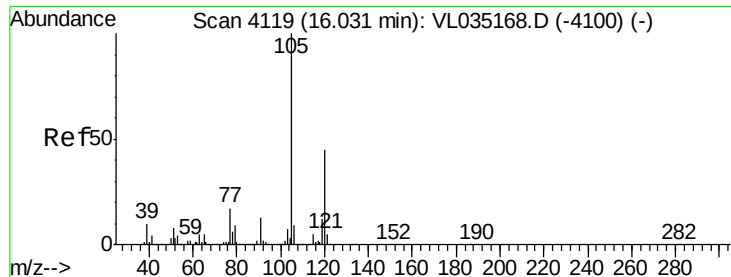
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 0.258 ppbv

RT: 16.02 min Scan# 4117

Delta R.T. -0.01 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

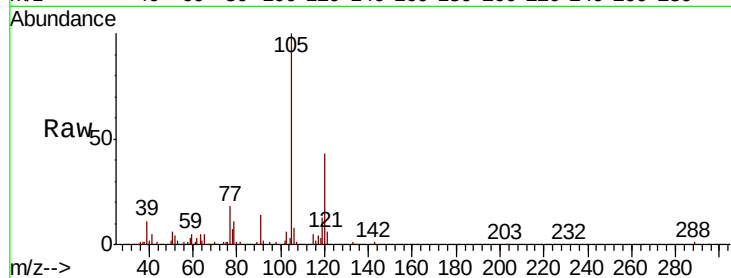
VSTDIC0.5

Tot Ion:105 Resp: 74143

Ion Ratio Lower Upper

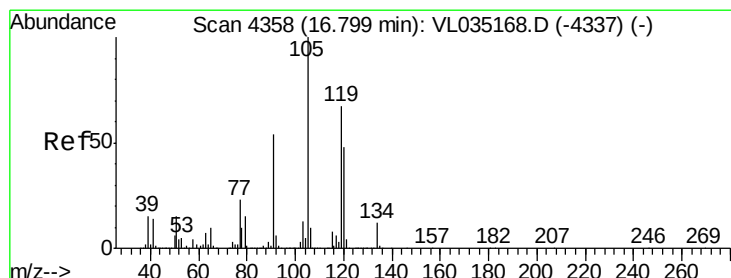
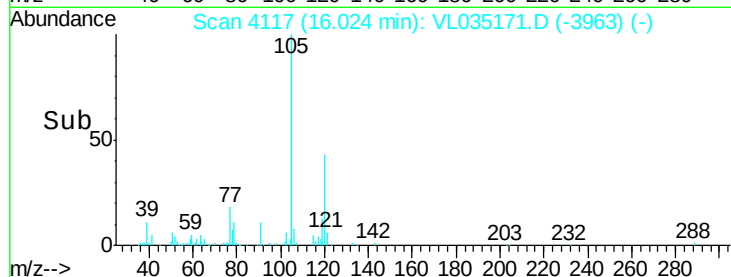
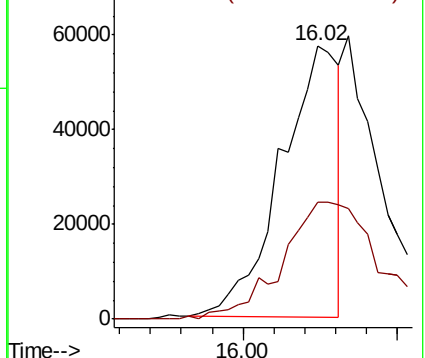
105 100

120 41.9 36.2 54.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.320 ppbv

RT: 16.79 min Scan# 4355

Delta R.T. -0.01 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Tgt Ion:105 Resp: 102816

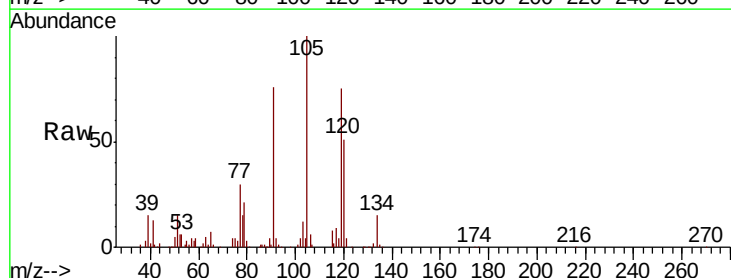
Ion Ratio Lower Upper

105 100

120 50.7 38.6 57.8

91 65.5 43.6 65.4#

77 28.9 18.3 27.5#

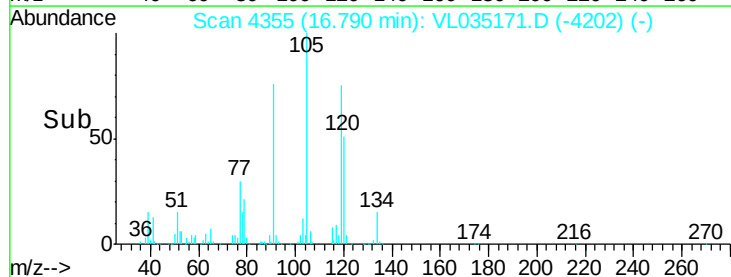
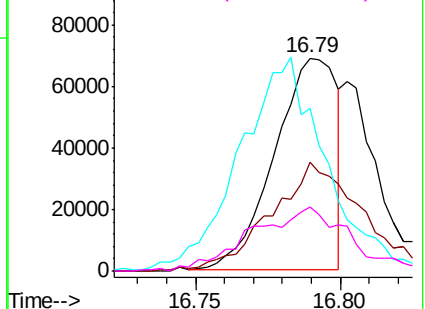


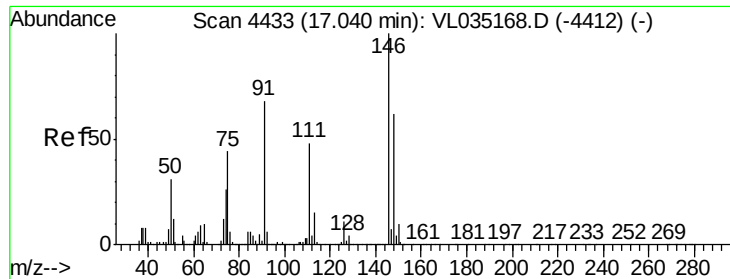
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

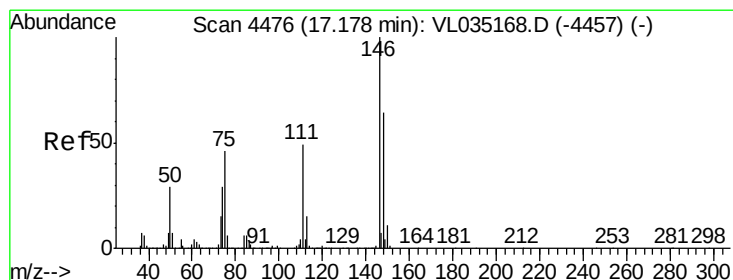
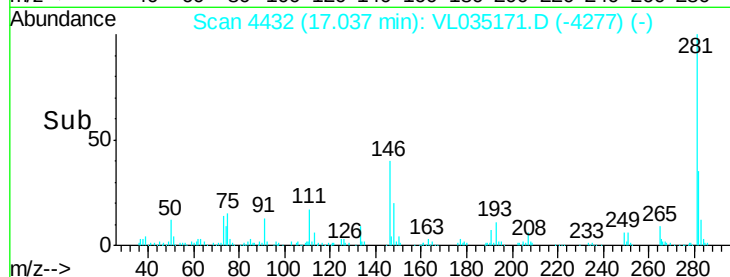
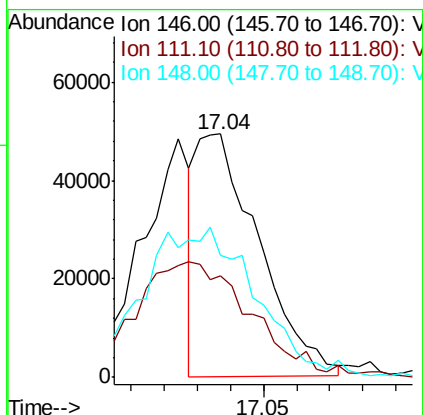
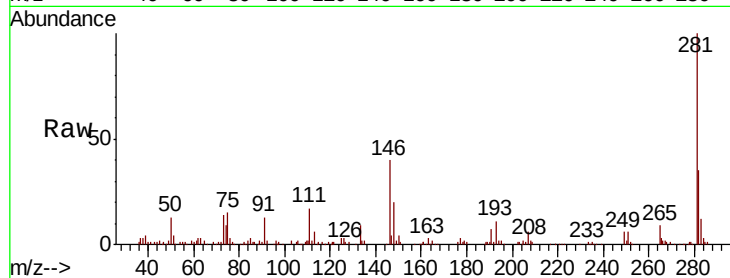




#75
 1,3-Dichlorobenzene
 Concen: 0.334 ppbv
 RT: 17.04 min Scan# 4432
 Delta R.T. -0.00 min
 Lab File: VL035171.D
 Acq: 8 Jul 2020 4:33

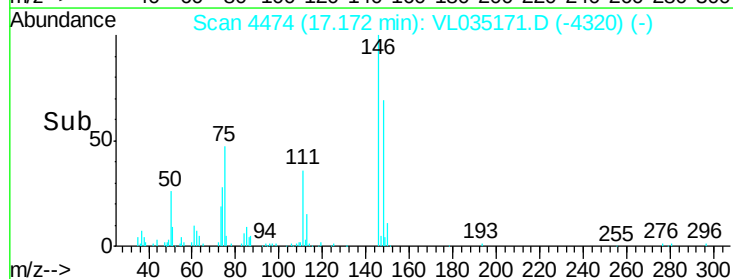
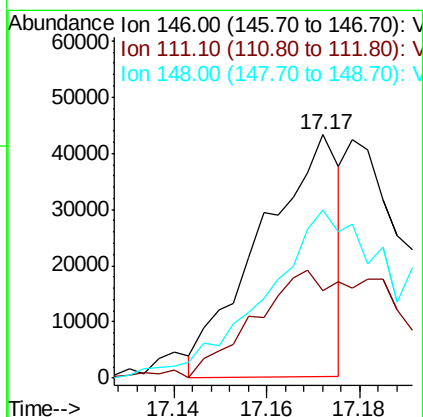
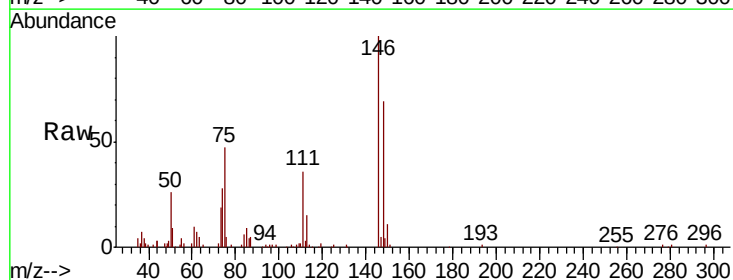
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

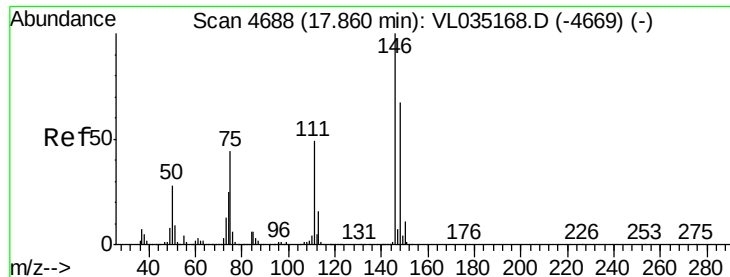
Tot Ion:146 Resp: 63966
 Ion Ratio Lower Upper
 146 100
 111 0.0 24.7 74.1#
 148 119.0 32.4 97.0#



#76
 1,4-Dichlorobenzene
 Concen: 0.275 ppbv
 RT: 17.17 min Scan# 4474
 Delta R.T. -0.01 min
 Lab File: VL035171.D
 Acq: 8 Jul 2020 4:33

Tgt Ion:146 Resp: 50555
 Ion Ratio Lower Upper
 146 100
 111 86.3 23.8 71.2#
 148 126.4 32.3 96.9#

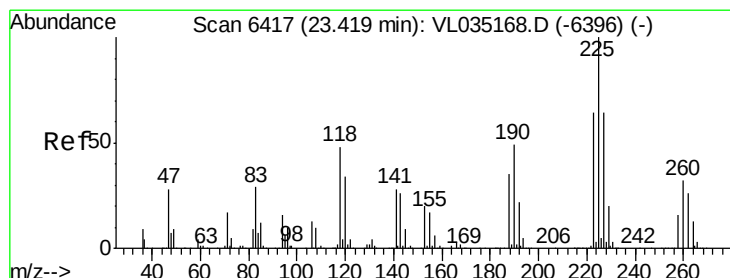
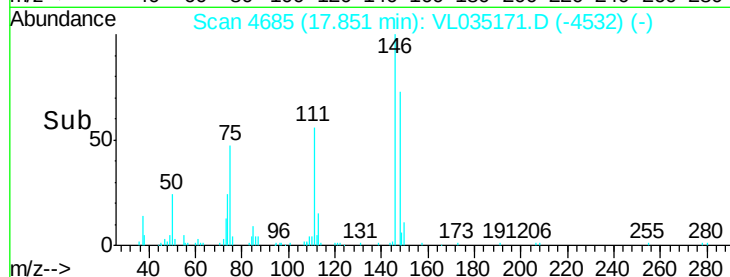
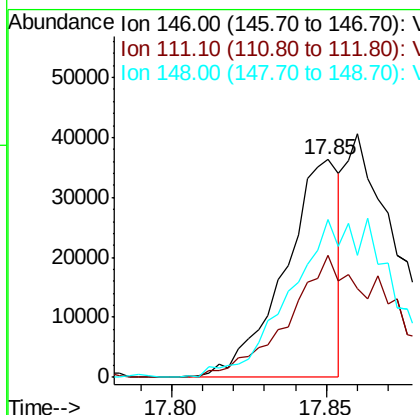
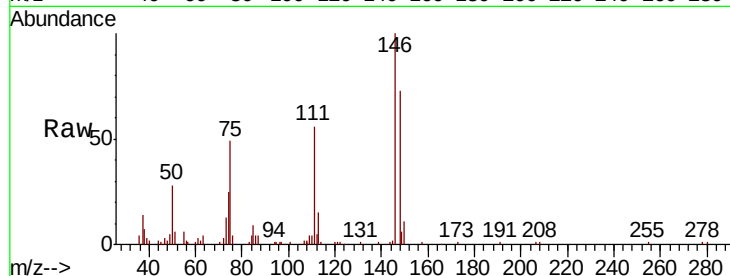




#77
 1,2-Dichlorobenzene
 Concen: 0.253 ppbv
 RT: 17.85 min Scan# 4685
 Delta R.T. -0.01 min
 Lab File: VL035171.D
 Acq: 8 Jul 2020 4:33

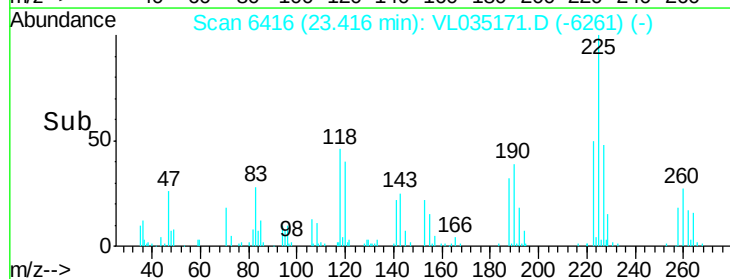
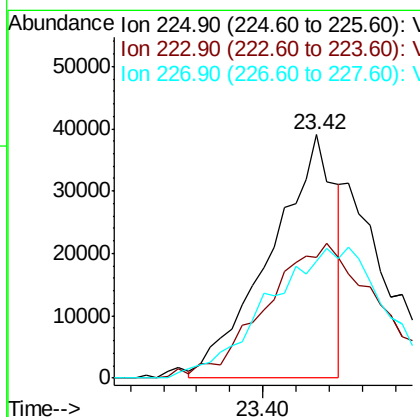
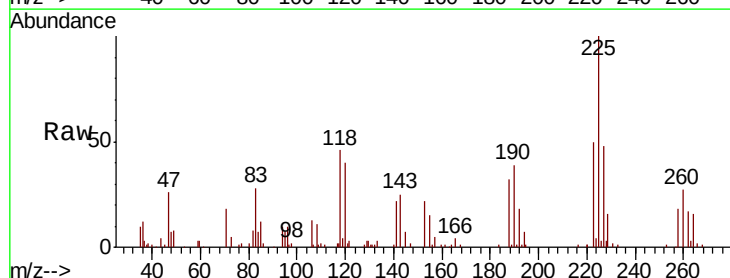
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

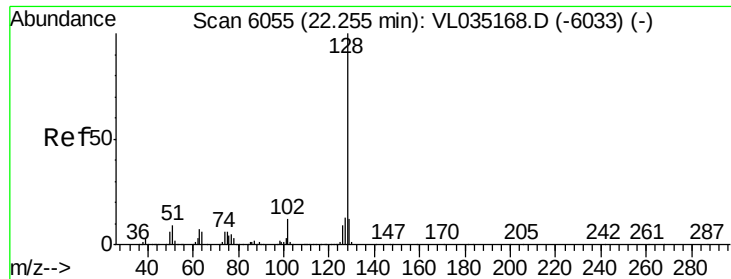
Tot Ion:146 Resp: 44660
 Ion Ratio Lower Upper
 146 100
 111 103.1 25.1 75.2#
 148 0.0 32.4 97.0#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.343 ppbv
 RT: 23.42 min Scan# 6416
 Delta R.T. -0.00 min
 Lab File: VL035171.D
 Acq: 8 Jul 2020 4:33

Tgt Ion:225 Resp: 53193
 Ion Ratio Lower Upper
 225 100
 223 95.1 50.2 75.2#
 227 0.0 51.2 76.8#





#79

Naphthalene

Concen: 0.067 ppbv

RT: 22.25 min Scan# 6054

Delta R.T. -0.00 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

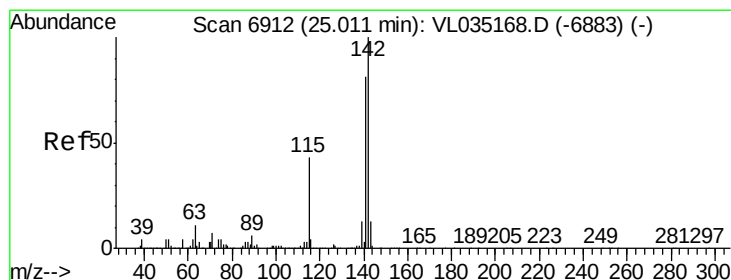
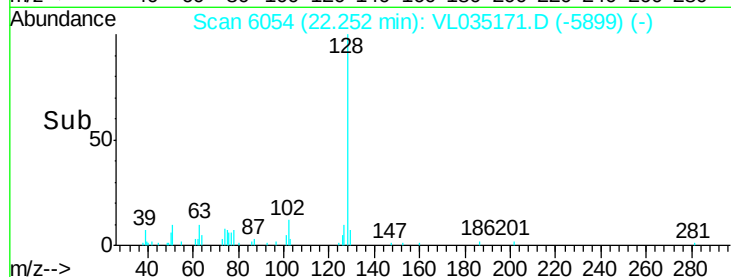
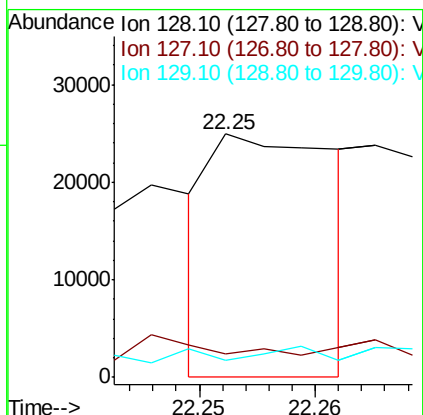
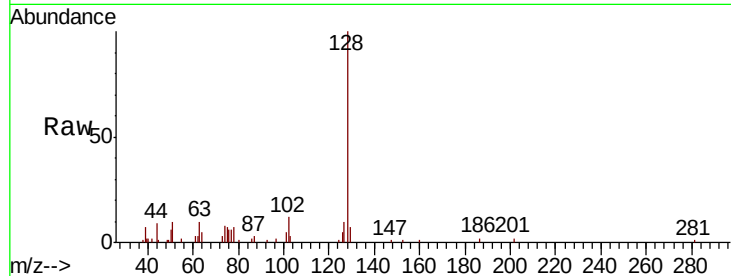
Tot Ion:128 Resp: 18459

Ion Ratio Lower Upper

128 100

127 0.0 10.8 16.2#

129 0.0 9.4 14.2#



#80

Naphthalene, 2-methyl-

Concen: 0.057 ppbv

RT: 25.03 min Scan# 6917

Delta R.T. 0.02 min

Lab File: VL035171.D

Acq: 8 Jul 2020 4:33

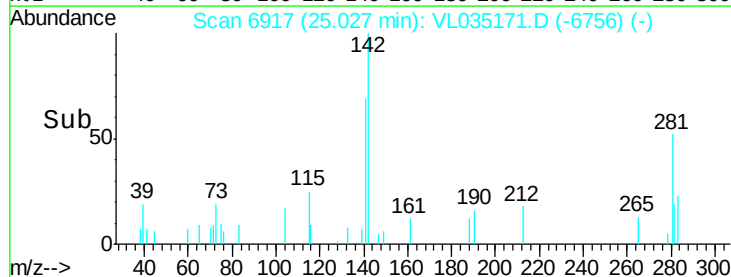
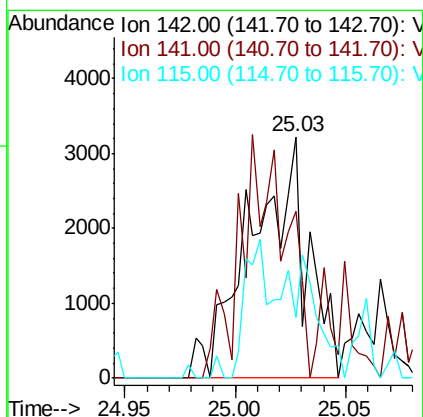
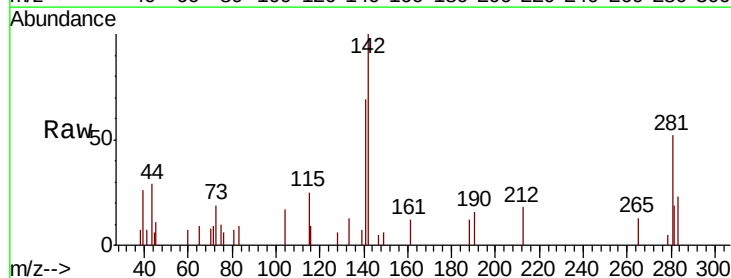
Tgt Ion:142 Resp: 5722

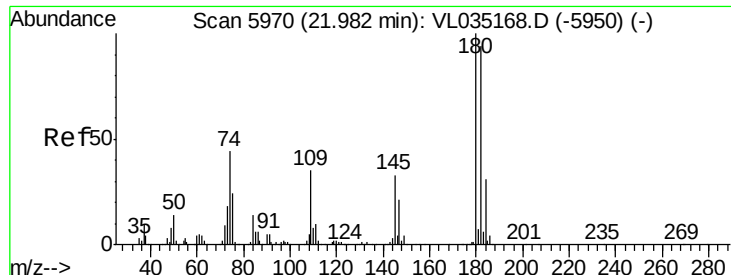
Ion Ratio Lower Upper

142 100

141 100.9 68.2 102.4

115 64.4 34.4 51.6#





#81
 1,2,4-Trichlorobenzene
 Concen: 0.084 ppbv
 RT: 21.98 min Scan# 5969
 Delta R.T. -0.00 min
 Lab File: VL035171.D
 Acq: 8 Jul 2020 4:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:180 Resp: 13343
 Ion Ratio Lower Upper
 180 100
 182 0.0 76.7 115.1#
 184 0.0 25.0 37.6#

